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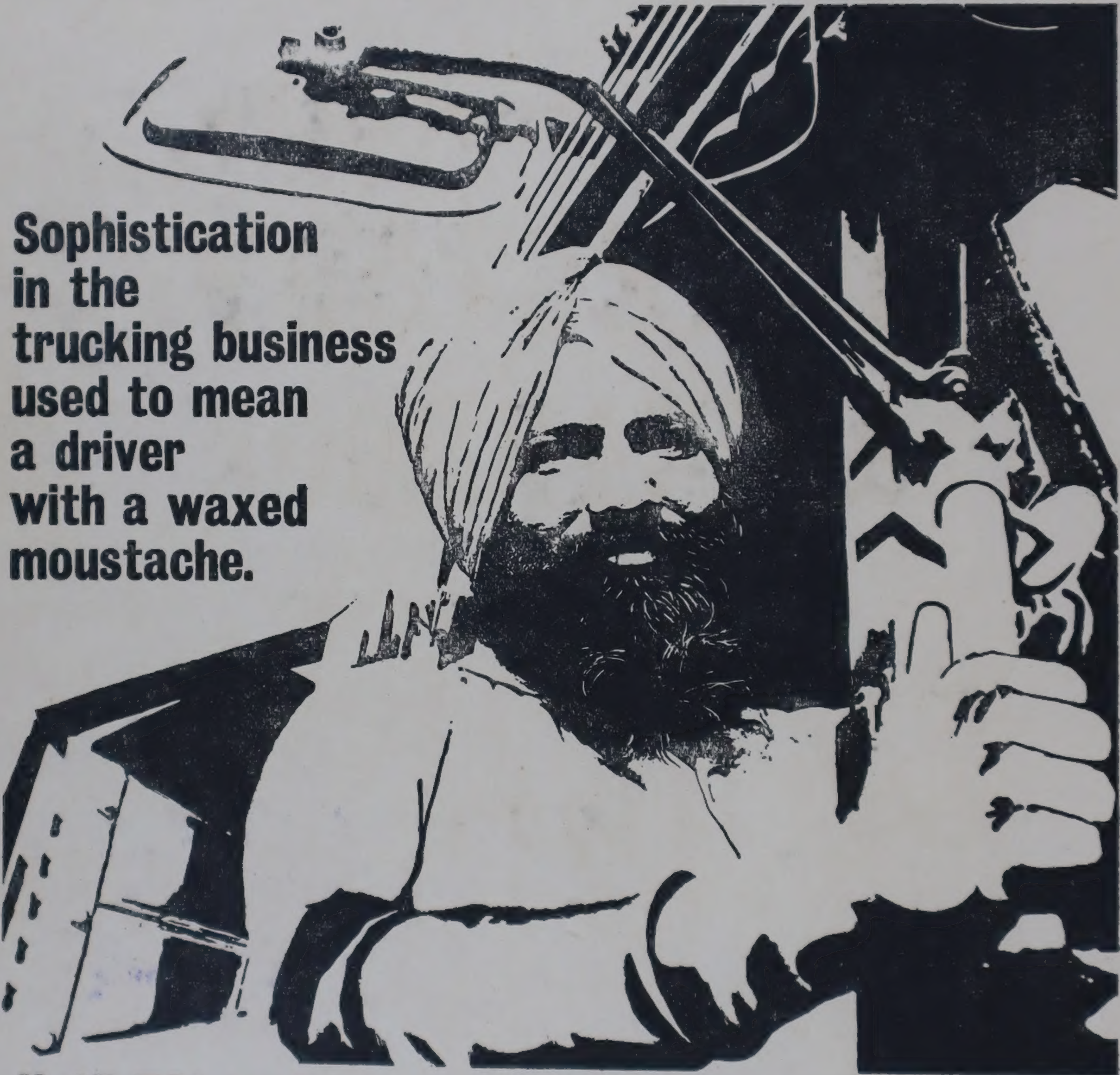

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There is in some cases a discrepancy between the figures from the Central and a State Government relating to the same subject. This is generally pointed out in a foot-note.

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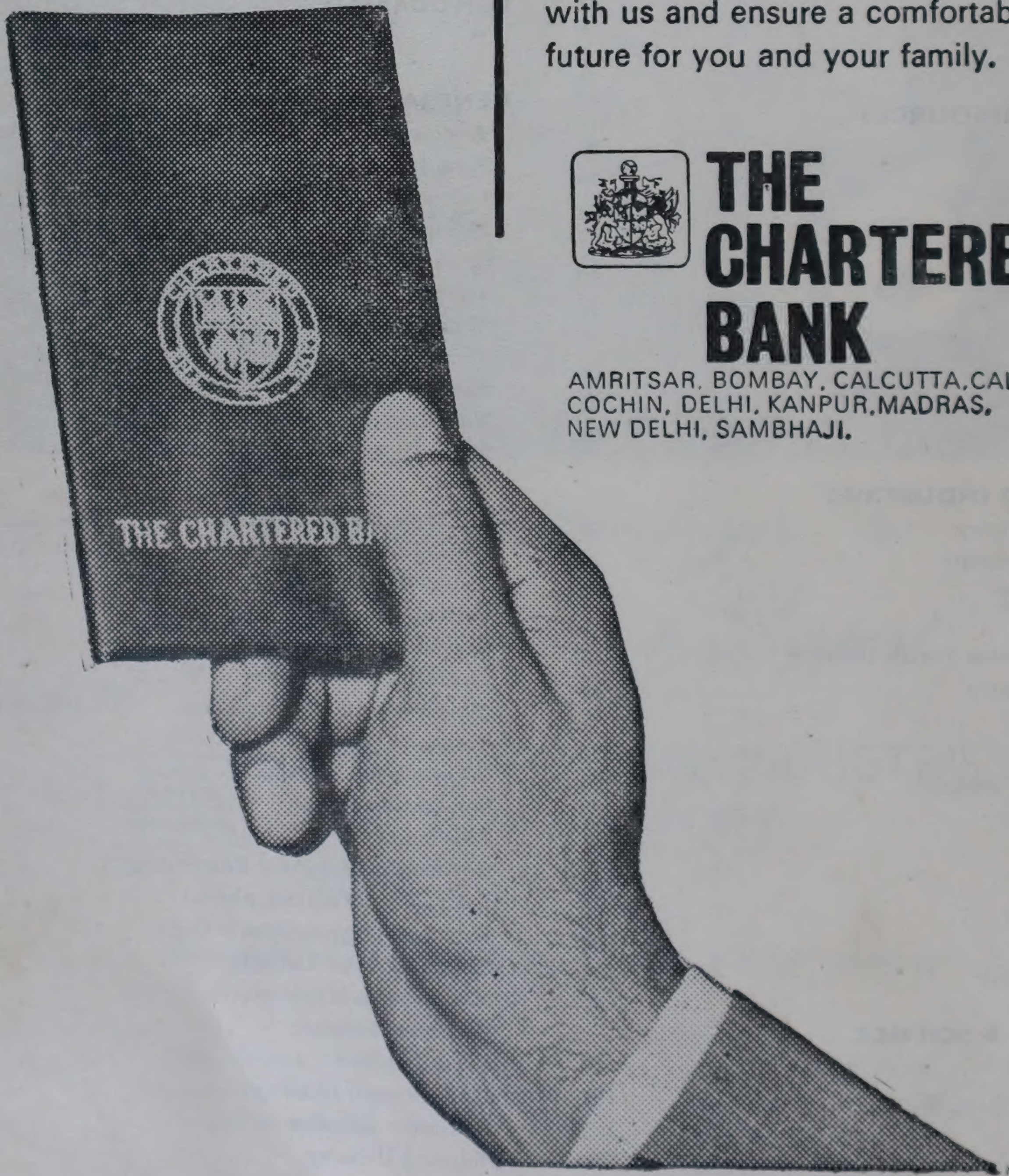

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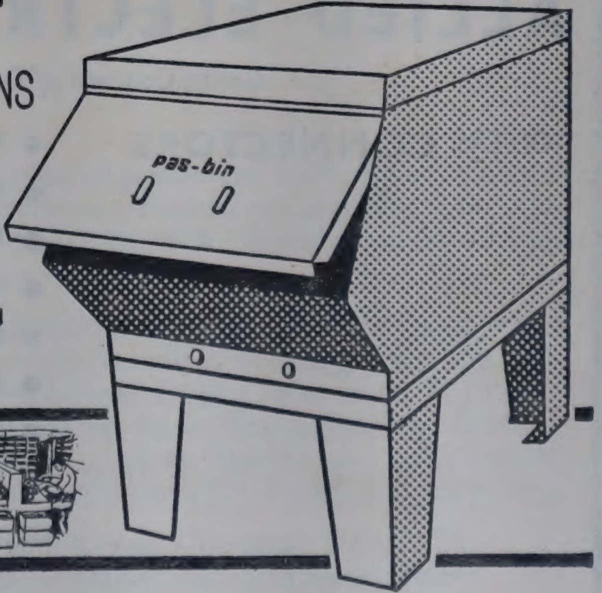

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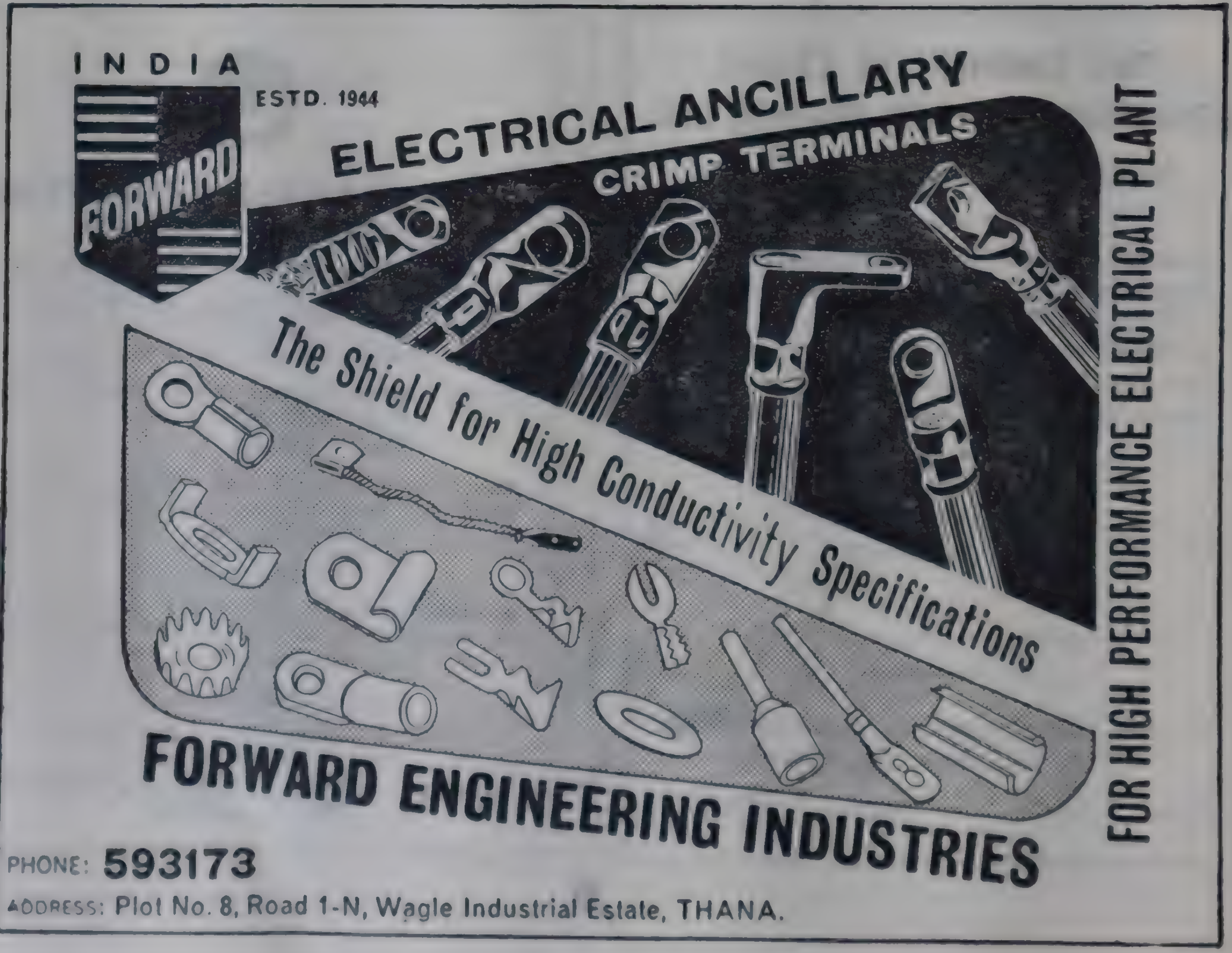
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Manufacturing Divisions : Diamond Products Manufacturing Division, Bombay; Greaves Light Engineering Division, Bombay; Paper Products Division, Bombay; Oilfield Equipment Division, Bombay.

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(*iv*) G. S. Das — *Materials Manager.*
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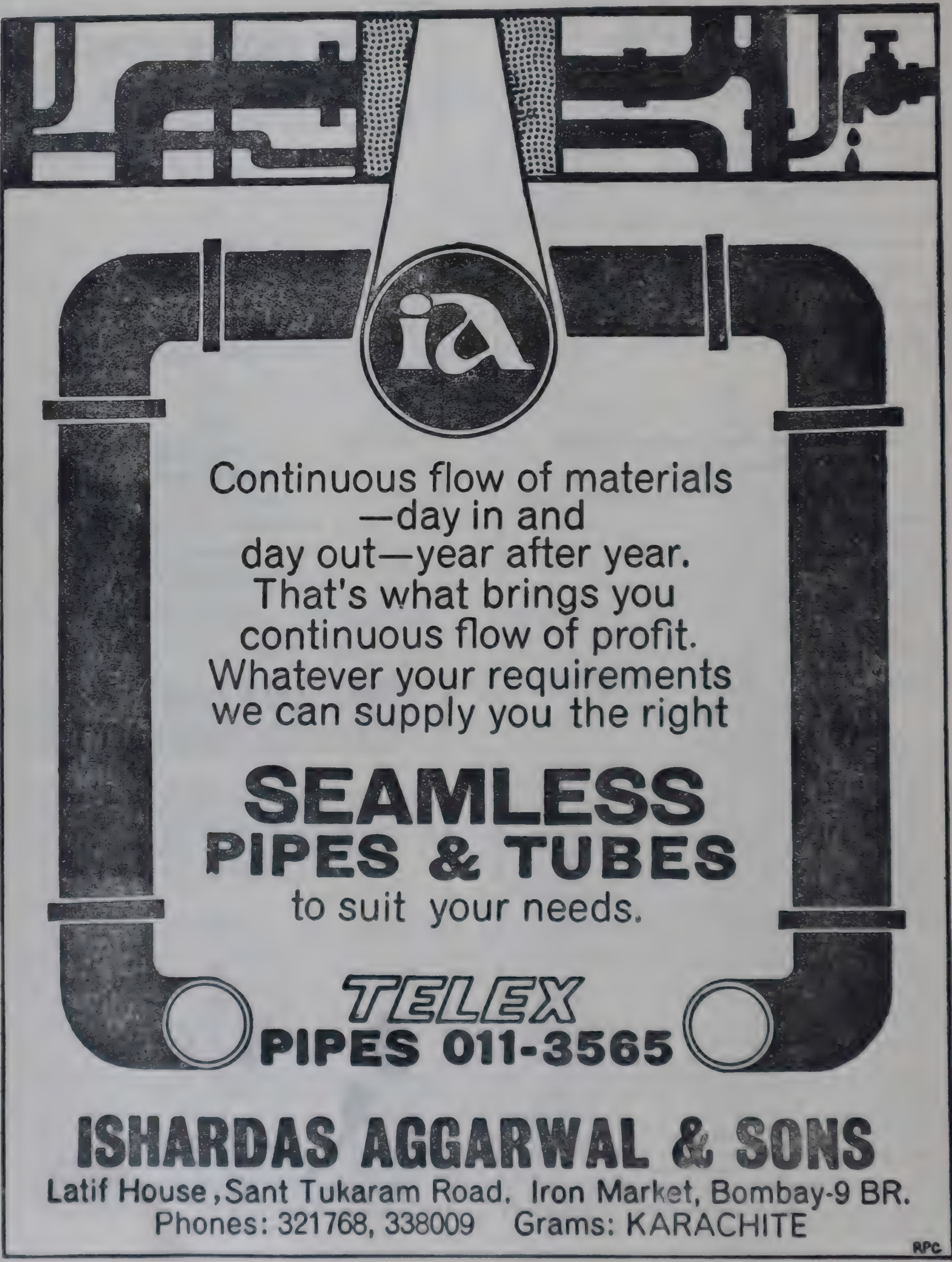

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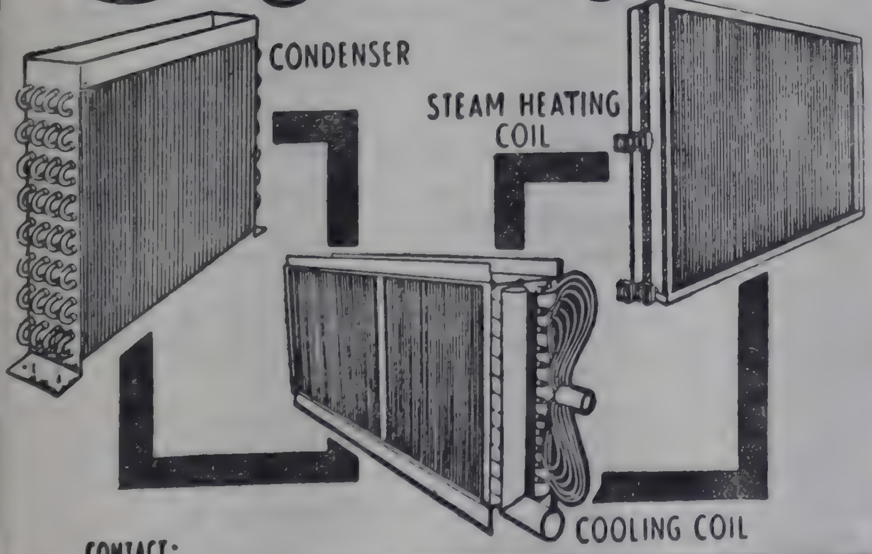

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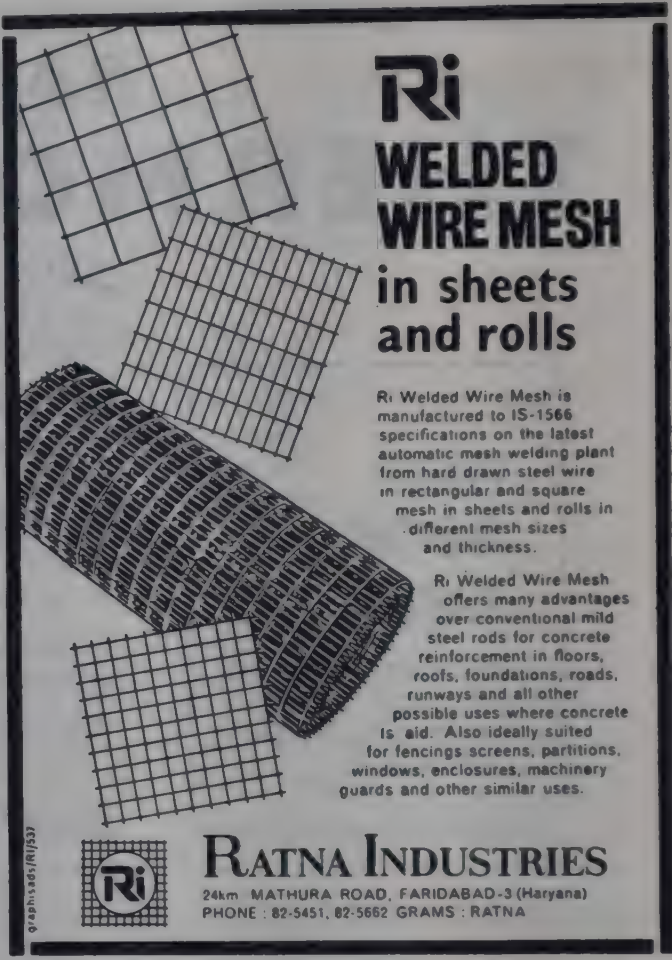

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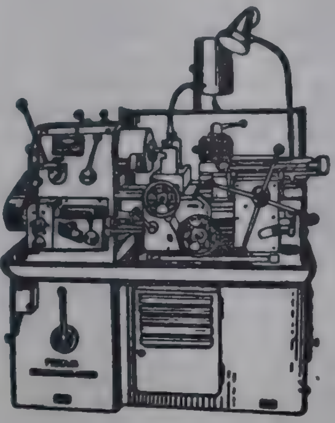

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(Ref. Surat Section)

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Export Department : Shivsagar Estate, Worli, Bombay 18.
Works : Jamshedpur and Poona.
Directors : S. Moolgaokar (*Chairman & Managing Director*), N. A. Palkhivala (*Vice-Chairman*), J. R. D. Tata, J. Zahn, N. K. Suntook, N. N. Wadia, N. H. Tata, N. P. Godrej, R. H. Broacha, B. S. D. Baliga, S. Y. Jakatdar, J. E. Talaulicar.
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Debentures : Rs. 22,28,00,000 (£11,751,055 or $30,520,548).
Total Annual Sales : Rs. 158,49,00,000 (£83,591,772 or $217,109,589).
Number of Employees : 23,500.

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Telephone Numbers :

Head Office: 259131 ; 258453. *Sales Office*: 253977/8/9 ; 254281 ; 254118. *Export Dept.*: 375391. *Works*: Jamshedpur 3121; Pimpri 8761/2/3 ; Chinchwad 8211/12/13.

Telex Numbers :

Head Office: 011-2618/2731. *Sales Office*: 011-3223. *Export Dept.*: 011-2716. *Works*: Jamshedpur 026-212/232/242. Pimpri and Chinchwad 014-289.

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Mr. S. Moolgaokar, *Vice-Chairman.*
Mr. N. A. Palkhivala, *Vice-Chairman.*
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A. D. Mango (*Deputy Chairman*).
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S. Moolgaokar
N. A. Palkhivala
B. Sh. Saklatvala
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A. B. Bilimoria
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K. M. Chinnappa
F. A. Mehta
S. A. Sabavala

Secretary & Controller of Accounts :

S. D. Masani.

Corresponding Firms :

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Tata Incorporated, 425, Park Avenue, New York, N.Y. 10022. Tel. Address : " TATAINC ".

Tata A. G., 20, Poststrasse, Zug, Switzerland. Tel. Address : " TATAG " ZUG.

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S. Moolgaokar
N. A. Palkhivala
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Paid-up Capital .. .. Rs. 377.25 lakhs
Date of commissioning : December 1952.

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Phone : 371051.

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Phone : 295307. *Chief Executive,* D. K. Sonalkar.
General Manager : R. G. Tambe.

ADVERTISING AGENTS & CONSULTANTS

PARAMOUNT PUBLICITIES

96-A, Mount Road, Teynampet, Madras 18.

Specialists in : Newspaper Publicity all over India and abroad ; Fully equipped to provide complete advertising services; Recognised by Newspapers all over India. Consult, for anything and everything in advertising.

Phones : 443509, 443629, Madras.
PIN CODE No. 600018.

ADVERTISING AGENTS & CONSULTANTS

ADVERTISING & SALES PROMOTION CO.

Steelcrete House, Dinshaw Vachha Road,
Bombay 20 BR.

Phone Nos. 295512 & 295482. Grams : "SALESAID."

Head Office at New Delhi.

Branches at Calcutta, Bangalore, Madras & Hyderabad.

ADVERTISING AGENTS & CONSULTANTS

HINDUSTAN THOMPSON ASSOCIATES LIMITED

International Advertising and Marketing Consultants, Express Towers, Nariman Point, Bombay-1.
Managing Director : Mr. M. Mathias ; *Branches at :* Calcutta, Delhi, Madras and offices throughout the world.
Phone : 297202.
Grams : 'THOMERTWAL'.
Telex : 3555.
P. O. Box 541.

ADVERTISING AGENTS & CONSULTANTS

ULKA ADVERTISING PVT. LTD.

Nirmal, Nariman Point,
Bombay 1.

Phones : 293176, 291956, 291458. Grams : ULKADS.

Branches : Calcutta, New Delhi.

Chairman & Mg. Director : Mr. Bal B. Mundkur.

ADVERTISING AGENTS & CONSULTANTS

STERLING ADVERTISING PRIVATE LIMITED

Regd. Office : Jeewan Roop Mansion, L-Block,
Connaught Circus, New Delhi-1.
Phone : 40676.
Branch Office : Causeway House, 3rd Floor,
Colaba Causeway, Bombay 20.
Phone : 211255. Gram : MOUNTAD.
Managing Director : Reyaz Ahmed.

ADVERTISING & PUBLICITY AGENTS

NEWFIELDS ADVERTISING PVT. LTD.

3/4-A, Asaf Ali Road, New Delhi 1.
Branches in forty countries abroad.

Fully Accredited Advertising Agents and Publicity Consultants with Connections all over the World ; Member A.B.C., A.A.A.I., I.E.N.S., Government of India Panel and International Markets Advertising.

ADVERTISING GIFTS & NOVELTIES

BOMBAY BAG FACTORY

Manufacturers of :

Bags, conference folders, purses, diary covers, files, writing set, marriage representations, inflatable toys and other novelties in Soft Plastic-PVC Sheets, for Compliments, Presents of Sale.

3377, Baghichi Acheji, Bara Hindu Rao,
Delhi.
Gram : "BOMBAYBAG". Phone : 515215.

ADVERTISING PUBLICITY AGENTS & DESIGNERS

VASUDEVA PUBLICITY SERVICE

Outdoor Advertising Agents :

Hoardings, Neon-sign site Display through Railways, Buses, Cinema Slides, Exhibitions etc.

50-M, Connaught Circus,
New Delhi 1.
Phone : 43792.

ADVERTISING GIFTS & NOVELTIES

MARF & COMPANY

Remembrance Advertising

Manufacturers of : Diaries, Wallets, Table Pads, and all other Advertising Media in Plastic, Rexine, Leather & Metal

362, V. P. Road, Bombay 4.

Phone : 353222. Grams : " ARMORIDE."

ADVERTISING GIFTS & NOVELTIES

Charms, Industrial Give-Aways, Gifts, Novelties, Bottles & Containers of Plastics, Stickers, Decals, Transfers, Greeting Cards in Plastics & Aluminium, Screen printers on plastics & Aluminium.

VINYL PROCESSORS

Ratnavali, 1st Gouthan Lane,
Bombay 400054.

Phone : 535090.

ADVERTISING GIFTS & NEW YEAR DIARIES

D. D. KISHAN & SONS

Manufacturing over 100 varieties of Kishan's New Year Diaries since last 40 years ; Also supplying as per customer's specifications, Diaries, Plastic Covers, Files & other Gift Articles.

Udyog Mandir, 2nd Floor, 7-C, Pitamber Lane,
Mahim-Bombay 16.

Phone : 458387.

ADVERTISING GIFTS & NOVELTIES

SHANTI PLASTIC WORKS

Prasad Chambers, 13th Floor, Opera House,
Bombay 4.

Manufacturers of :

Plastic Files, Folders, Covers for Catalogues, Pass Books and Plastic Packaging Articles. Also Gifts like Wallets, Keychains, Diaries, etc. Any article from P. V. C. Sheetings as per customer's specification.

Phone : 360338.

AERATED WATER MFRS.

PURE DRINKS PRIVATE LIMITED

Authorised Bottlers of : Coca-Cola & Fanta.

Manufacturers of: SODA SPECIAL.

Address: Worli Naka, Bombay 18.

Telephone : 379651 (4 Lines)

Telegraphic Address: " PUREDRINKS."

General Manager: Mr. Charles Singh.

AERATED WATER MFRS.

PREMIER AERATED WATERS PRIVATE LIMITED

Manufacturers of: High Class Aerated Waters and Soft Drinks.

Office & Factory: Near Nair Hospital, Lamington Road (North), Bombay 8.

Managing Director: Mr. B. D. Motafram.
Phones: *Office:* 374282; Res.: 378622.

AERATED WATER MANUFACTURERS

DUKE & SONS (PVT.) LTD.

(Estd. 1889)

CHEMBUR, BOMBAY 71

Phones : 524143 & 524516

Manufacturers of Aerated Waters and Fruit Drinks

"MANGOLA", "PINEOLA" and "LIMEOLA". Made from Fresh Fruit Juices. Bottles washed, syruped, filled and crowned by completely automatic machinery thereby ensuring absolute purity and cleanliness.

UNTOUCHED BY HAND

AERATED WATER MACHINERY & REQUISITES

ESOOFALY MAHOMEDALY & CO.

(Estd.: 1845)

Dealers in:—Aerated Water Requisites.

Sole Selling Agents:

INDIAN CARBON DIOXIDE INDUSTRIES
(Bombay-Madras).

Head Office: 102/4, Sarang Street, Bombay 3.
Grams: " PURIFIED." *Phones:* 326516 & 325633.
Branches: 12, Walltax Road, Madras 3.
Phone: 334400. *Grams:* " HARMLESS."
13-11-233, Convent Street, Park Road, Vijayawada-1.
Phone: 1004. *Grams:* " PURIFIED ".
Also at: Shivaji Road, Kolhapur.

AERATED WATER MACHINERY & REQUISITES

T. ALIMAHOMED & CO.

(Estd. 1924)

Stockists of Aerated water, Bakery and Confectionery requisites, P.P. Caps & P.P. Sealing machine.

144-46, Sarang Street, Bombay 3.

Sole Agents for Diamond Aerating Gas Works Ltd., Bombay 3.

Phone : 327131. Grams : " AERATORS ".

AGARBATHIES & ALLIED PRODUCTS

For PRAYER and PLEASURE USE

ARAVINDA
REGISTERED T.M.No 231995
Sugandha Shringar
AGARBATHI
APW
ARAVINDA PARIMALA WORKS. MYSORE. Prop. H.S. RAO & BRO.

Manufacturers :

ARAVINDA PARIMALA WORKS

MYSORE-4.

Grams : SUGSRINGAR. Phone : 21760 (3 lines).

AGARBATHIES & DHOOP FACTORIES

THE MODERN INDIA TRADING CO.

(ESTD.: 1932)

5, Park Road, Bangalore 2-A.

Manufacturers of :

'DASARA' Brand Agarbathies.

Our proud quality creations of Agarbathies: Dasara Gulab, Dasara Shringar, Dasara Sugandh, Dasara Golden, Modern Jewels, Mitco Rose Durbar, Dasara Durbar and other Fragrant varieties; Overseas orders are highly appreciated.

AGARBATHIES & DHOOP FACTORIES

N. RANGA RAO & SONS

VASU & CYCLE
Brand Agarbathi Works
100, Feet Road, Post Box No. 52,
Mysore 4.

Makers of :

CYCLE BRAND
Sugandamallika Bathies.

Grams : VASUBATHI. Phone : 21227 & 23507.

AIR COMPRESSORS & ACCESSORIES

INDO AIR INDUSTRIES

Manufacturers of :

'INDOAIR' Air Compressors backed by many years of Technical Know-how and the pioneer in the field.

49, Municipal Industrial Estate, Gandhi Nagar,
Off E. Moses Road, Worli, Bombay 18.

Phone : 214695.

AGRICULTURAL IMPLEMENTS

MODERN FARM AIDS

Manufacturers of :

'Crocodile' Brand Modern Agricultural Implements, Harrow discs and other Spares.

4-E/8 Jhandewalan Extn., New Delhi-55
Phones : 56-6508, 22-1105.

Works :

A-5/C Modern Ind. Estate, Bahadurgarh.
Phone: 292.

AIR CONDITIONING & REFRIGERATION

AIR CONDITIONING CORPN. LTD.

Manufacturers :

Sales & Service "ACCAIRE" Room Air Conditioners, "ACCOOLER" Water Coolers, "PACKAIR" Packaged type Air Conditioners, "ACCO" Industrial Fans, "ACCO" Cooling Towers, "ACCO" Viscous Air Filters & "ACCAIRE" Voltage Correcting Units.

64, Ring Road, Lajpat Nagar III, New Delhi 24.
Phones : 625251/52.
Service Station : Phone : 621275
Grams : " ACCAIRE ".

AIR-CONDITIONING & REFRIGERATION

AMERICAN REFRIGERATOR CO. LTD.

Refrigeration & Air-Conditioning Engineers

Manufacturers of : Famous 'ARCO' window type 1 ton & 1½ ton Air-Conditioners, Water Coolers/Refrigerators, Packaged Air-Conditioners, Water Heaters, Bottle Coolers, ARCO Bush Coils, Condensers, Chillers etc.

Sole Agents for : Electrolux Refrigerators and TRANE Air Conditioning and Refrigeration Equipment in India.

Sadhana Rayon House, Dr. D. N. Road, Bombay 1.
Phone : 265671.

AIR-CONDITIONING & REFRIGERATION

NATIONAL REFRIGERATION WORKS

3, Subhash Marg, Delhi ; Importers & Stockists of Airconditioning & Refrigeration Machineries and Parts, Compressors, Copper Pipes, Freon gases ; Tools, Controls & Valves ; Also Manufacturers of Softy Machines, Ice cream churners, Water & Bottle Coolers, Deep Freeze Cabinets & Ice Candy Plants. Phones : 274041-42. Factory : 60, Govt. Industrial Estate, Okhla, New Delhi ; Phone : 630784. Res. : Mr. Ratan Lal : 624460 ; Mr. K. Kumar : 621844. (PARTNERS)

AIR CONDITIONING & REFRIGERATION

PANDYA & CO.

Manufacturers of :

Air Ducts, Air Washers, Dust Collectors, All types of adjustable Grills, Diffusers, Dampers, Cooling Towers etc.

Nanabhoy Mansion, P. M. Road, Bombay 1.
Phone : 261228.

AIR-CONDITIONING & REFRIGERATION ENGINEERS

STAR FREEZ INDUSTRIES

Manufacturers of : Industrial Refrigerators, Air-Conditioners, Water Coolers, Chilling Plants, Deep Freezers, etc. Importers of open & Sealed Type Compressors, Freon, Methylchloride, so_2 Gas, Copper Tubings, Thermostat, etc.

Gazdar House, Dhobi Talao, Bombay 2.
Phones : Office : 298343, 291332. Res. : 473728.

AIR-CONDITIONING & REFRIGERATION ENGINEERS

BOMBAY AMMONIA PRIVATE LTD.

Head Office : 298, P-Nariman Street, Behind Reserve Bank, Bombay-1.

Branch Offices at :—New Delhi, Madras & Calcutta.

Suppliers of Refrigeration & Air-conditioning Equipment for Cold Storages, Ice Plants & Central Air-conditioning Plants.

Phones : H.O. 269761, 269762.
Telex. 011—3295

AIR-CONDITIONING & REFRIGERATION EQUIPMENT

CHATUR PARMANAND VASWANI

59, Forbes Street, Bombay 1.

For "COPELAND" Refrigeration and Air-conditioning Machinery ; Parts and Accessories like Copper Tubing, Brass & Copper Fittings, Valves and Controls, Tools Gas, etc.

Phone : 251340.

Grams : "CLIMATEER".

AIR FILTERS

FILTERS

Manufacturers of all types of filters including self-cleaning, Duplex, Motorised, Wire Mesh, Basket type, Micron, Centrifugal filter and also Centrifugal Blowers, Exhaust Fans, Heat exchangers, Air filters, Pressure Regulators, Lubricators and exact substitutes for Imported Filters.

Manufacturers :

OTOKLIN FILTERS OF INDIA

1006, Prasad Chambers, Near Roxy Cinema,
Bombay 400004.
Phones : Office : 352673, Factory : 578486

AIR FREIGHT, CLEARING, FORWARDING & WAREHOUSING AGENTS

JEENA & CO.

10, Veer Nariman Road, Bombay.

Air freight, Shipping, Clearing, Forwarding and Warehousing Agents. Correspondents everywhere.

Tel. Address : "JUSTITIA."

Phone : 258413. Post Box No. 849.

ALUMINIUM

SWASTIKS

Show Room : 3603, Chawri Bazar, Delhi 6.
Phones : 265576, 266429.

North India Distributors for Extruded sections manufactured by Indian Aluminium Co. Ltd. Also Dealers in : Aluminium Sheets, Coils, Ingots, Aluminium Ladders a speciality.

Office : 8B, Jindal Trust Bldg.,
Asaf Ali Road, New Delhi.
Phone : 271064.

ALUMINIUM

SUDARSHAN CHOKHANI & CO.

Distributors/Stockists :
Hindustan Aluminium Corpn. Ltd.
Indian Smelting & Refining Co. Ltd.

Selling Agents :
Indian Smelting & Refining Co. Ltd. for Copper & Brass Sheets, Alloys & Castings.

Oriental Metal Pressing Shop, 138, Kalbadevi Road, Bombay 2. Phones : 336253 & 337222.
Grams : " CHOKTRAD".

ALUMINIUM

Sheets, Sheets in Coils, Circles Foils, Strips, Flats, Angles Tube-Rods and Extruded sections in Various Shapes etc.

MAHAVIR METAL WORKS PRIVATE LIMITED

17, Abdul Rehman Street, Bombay 3.
Phone : 323070.

Regd. Office : 477, Bartan Market, Sadar Bazar, Delhi.

ALUMINIUM MFRS. & DEALERS

INDIAN ALUMINIUM CO., LIMITED

Manufacturers and dealers in Aluminium and its semi-fabricated products, viz. ingots, sheets, circles, extrusions, foil, rod, powder, paste and dried filter cake ; also alumina and carbon paste.

Bombay Sales Office : Air India Building, Nariman Point, Bombay-1.
Telex (011) 2530 INDAL BY
Telegram: "INDALUMIN" Telephone: 291819
Registered and Head Office : 1, Middleton Street, Calcutta 16.
Telex (021) 332 INDALCA
Phone : 442371. Grams : INDALUMIN.

ALUMINIUM ARCHITECTURAL BUILDING PRODUCTS

AJIT INDIA PRIVATE LTD.

408, Himalaya House, Palton Road,
Bombay 1.
Phone : 267221. Grams : ALUGLAZE
Telex : 011-2802.

Doors, Windows, Partitions, Shop Fronts, Curtain Walling, Louvres, False Ceiling, Northlight Glazing and other architectural products manufactured with foreign collaboration incorporating latest techniques and designs.

Branches : Calcutta, Delhi, Madras, Hyderabad.

ALUMINIUM LADDER MFRS.

ESHAK DADA BAMBOOWALA

Manufacturers of :
Aluminium & Wooden Ladders specially in Single Folding, Extension, Self-supporting Extension, Platform, Double Steps Trestle, Telescopic & Hook Ladders.

72, Ebrahim M. Merchant Road, Bombay 9.
Grams : AILANTO. Phone : 333526.

ALUMINIUM SHEETS, RODS ETC.

J. NAGARDAS & CO.

55/3, Biplabi Rashbehari Basu Road,
Calcutta 700001.

Stockists of :
Aluminium Sheets, Circles, Extrusions, Pipes, Ingots, Wires etc., Also Polyolefin's Polythene HASTI BRAND High Density Pipes and Fittings.

Phones : 340095, 341872.

ALUMINIUM SHEETS, RODS, ETC.

ATUL METAL CORPORATION

Available : " ALUCOIN " & " HINDALCO "
Products from ready Stock.

Stockists for : J. K. and Hindalco Products.

86, Kansara Chawl, Kalbadevi Road,
Bombay-2 BR.

Phones :
Office : 334816, 334408.
Resi. : 353264.
Factory : 375381.
Godown : 370211.
Grams : " SRADDHAWAN".

ALUMINIUM SHEETS, PLATES ETC.

GEETA METAL INDUSTRIES

Anupam (A) Building,
Opp. Maneklal Estate, Agra Road,
Ghatkopar, BOMBAY-86 (AS).

Bombay Office : 313907. Res : 576417.

ALL KINDS OF ALUMINIUM SHEETS, PLATES, COILS, FOILS AND CHEQUERED PLATE ETC. AND EXTRUDED SECTION

ALUMINIUM SHEETS, RODS ETC.

MADHAB & COMPANY

56/1, Canning Street, Calcutta 700 001.

Stockists of :
Aluminium Sheets, Circles, Strips, Extrusions, Rods, Tubes, Mouldings, Anodized Architectural Fillings, Ingots, Ladders etc.

Phones : 347728 & 347782.

ALUMINIUM & COPPER BASED ALLOY EXTRUSIONS & THEIR END PRODUCTS

JEEWANLAL (1929) LTD.

Manufacturers & Exporters of :
CROWN BRAND Aluminium utensils and anodised articles ; Suppliers of Aluminium in all forms for industrial uses.

Liberty Buildings, Marine Lines, Bombay 400 020.
Phone : 291156.

ALUMINIUM & WOODEN FURNITURE

FEATHERLITE CORPORATION

136, Mysore Road, Bangalore 560 026.

Manufacturers of :
Elegant — Durable — Portable
Aluminium Garden & Office Chairs,
Wood-cum-Aluminium Office Tables,
Revolving Chairs etc.
Phone : 29028. Cable : " RAMGIR ".

ANALYSTS (ANALYTICAL CHEMISTS)

CHEM — MED ANALYTICAL LABORATORIES

Chemical & Microbiological and Biological Analysis & Sampling including Preshipment exports of Pharmaceuticals, including Pyrogens and Toxicity tests, Chemicals, Drugs, Oils, Ice Creams, Cosmetics, Foodstuffs, Minerals, Ores, Metal Alloys, Fertilisers, Insecticides and other consumer products.

5-6, Kakad Estate, Sea Face Road, Worli,
Bombay 400 018.

Phone : 377942.

ANALYSTS & SURVEYORS

ITALAB (GOA) PRIVATE LTD.

Industrial Testing and Analytical Laboratories, Surveyors, Samplers, Analysts ; Regd. Office : Lotlikar Bldg., Margao, Goa.

Phone : 2336. Grams : " MINEROLAB ".

ANALYSTS & SURVEYORS SAMPLERS

ITALAB PRIVATE LIMITED

Assayers, Samplers & Surveyors.

Head Office: 15, Cawasji Patel Street, Bombay 400 001.

Phones : 253882 & 253667. Grams : " ITALABO."

Branch Laboratories at : Madras : 19, Govindappa Naicken Street ; Calcutta : 10, Lall Bazar ; Visakhapatnam : 20/119, Beach Road ; Bellary : XIX/37, Ganesh Temple Street, Cowl Bazar, Bellary 2.

ARCHITECTS & BUILDERS

VAZIFDAR BUILDERS PVT. LTD.

Designers, Builders & Promoters.

Address :
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Colaba, Bombay 400 005.

Phone : 212557.

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K. R. IRANI & CO.

Consulting Civil Engineers, Architects, Specialists in Industrial Projects & Valuation Experts.

Office : 24/26, Dalal Street, Fort, Bombay 400 001.

Partners : J. G. Bodhe, K. C. Master, R. K. Irani, Amar K. Master.

Phones : 255040, 256988 & 252557.

AUTOMOBILE PARTS & ACCESSORIES

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RANE PVT. LIMITED

Reputed Dealers of Automotive Products,
New Queen's Road, Bombay 400 004.
Phone : 354275. Grams : " AUTOWORKS".
Branches :
Kashmere Gate, Delhi.
Mahatma Gandhi Road, Secunderabad.

AUTOMOBILE PARTS & ACCESSORIES

GLOBE AUTO INDUSTRIES

B-85/86, Rewari Line Industrial Area, Near Ragouri Garden, New Delhi 400 027.

Manufacturers of :

Head Lights, Tail Lights, Roof Lamps, Parking Lamps, Indicator Lamps, Rear View Mirrors, Hub Caps, Petrol Tank Caps, Plastic Moulded goods & Vacuum Metallisation of articles.

Phone : 584045.
Grams : " GLOBEAUTO ".

AUTOMOBILE PARTS & ACCESSORIES

UNION MANUFACTURING CO.

50, Chakala Road, Andheri East, Bombay 400 093.

Manufacturers of :

UMC Brand Tempered Automobile Laminated Springs & Leaves, U. Bolts & Nuts and Axle Studs for all cars, Trucks, Trailers and as per Customers' Specification.

Phone : 571732.
Grams : " YOUEMCEE ". Andheri, Bombay.

AUTOMOBILE PARTS MANUFACTURERS

SIYARAM—KUMAR ENGINEERING WORKS PVT. LTD.

45, Najafgarh Road, New Delhi-110 015.
Phones : 586822, 583931.

Manufacturers of : Automobiles, Tractors, Machinery Parts & Hydraulic Equipment.

Managing Director : J. V. Gupta.
Tech. Director : M. Kumar.

AUTOMOBILE PARTS MFRS.

NEW HAVEN ENGINEERING COMPANY PRIVATE LTD.

Manufacturers of: Automobile Parts, Machinery Spares, Bright Polished Bolts & Nuts, Socket Head Cap Screws, Precision Turned Automatic Parts, Steel Balls etc.

Office:
Nanjee Building, 17-B, Horniman Circle,
Bombay 400 001.
Phone: 263524.
Factory: Parsi Panchayat Road, Andheri (East),
Bombay 400 069.
Phones : 576489, 576480.

AUTOMOBILE PARTS MFRS.

Gābriel INDIA LIMITED

Manufacturers of : **SHOCK ABSORBERS**
Head Office & Factory :
Agra Road, Mulund, Bombay-400 080.
Telephone : 594111 (8 Lines).
Telegrams: "GABRIEL", Bombay-Mulund.
Managing Director's Office :
Magnet House, Dougall Road, Ballard Estate,
Bombay 400 001.

AUTOMOBILE PARTS MFRS.

AUTOMOBILE ANCILLARIES OF INDIA PVT. LTD.

Manufacturers of : Heat Exchangers, Radiators, Cores, Oil Coolers and Components for Automotive, Industrial & Earthmoving Equipments.

Suppliers to the Ministry of Defence, Bajaj Tempo Ltd., Bharat Earth Movers Ltd., Escorts Ltd., Mahindra & Mahindra Ltd., Larsen & Toubro Ltd., Millers India, Khandelwal Udyog Ltd., Voltas Ltd., Oil & Natural Gas Commission etc. etc.

Office & Factory : 31, Kandivli Industrial Estate,
Kandivli (West), Bombay 400 067.
Phones : 693261, 693262. Grams : " CLEARTUBE ".
Managing Directors : Mr. K. B. Patel, Mr. Harshad Patel.

AUTOMOBILES, AUTOMOBILE PARTS & ACCESSORIES

M/s. NARCINVA DAMODAR NAIK

Margao, Goa

Main Dealers for Goa:

M/s. TATA ENGINEERING & LOCOMOTIVE CO. LTD.
Automobile Division, Jamshedpur.

Importers of: Genuine Mercedes-Benz Parts.

AUTOMOBILE PARTS & ACCESSORIES (MFRS. & DEALERS)

- **RADIATORS**
- **FUEL & OIL FLEX. HOSES**
- **HIGH PRESSURE HOSES**
- **BRAKE HOSES etc.**

Sole Selling Agents :

THE STANDARD GARAGE
Modi Chambers, Bombay 400 004.
Cables : "ACCESSORIES". Phones : 359232/33

AUTOMOBILE PARTS & ACCESSORIES MFRS. & DEALERS

GLOBE AUTO ELECTRICALS LTD.

Mulund, Bombay-400 080.

Magneti Marelli Products: Ignition Coils, Wiper Motors, Distributors, Regulators, Ignition Switches. Prestolite Products : Alternators, Dynamos, Starting Motors.

AVERAGE ADJUSTERS & CLAIM SETTLING AGENTS

V.N.C. NARICHANIA (PRIVATE) LTD.
P.O. Box 207-A, 22, Sir Phirozshah Mehta Road, Fort, Bombay (India).

Phones : 269541, 266525.
Grams : " SURVEYLOSS ".
Telex : 011-2928-Average.

Branches : Calcutta— P.O. Box No. 2259
Madras— P.O. Box No. 1860

AYURVEDIC MEDICINES MFRS.

DHOOTAPAPESHWAR LTD.
135, Nanubhai Desai Road, Near Wilson High School, Bombay-400 004 Phone No. 355888.
Factory : Panvel, Dist. Kolaba.
Phone Nos. 216, 217 & 632.

Manufacturers of :

DRAKSHOVIN SPECIAL, SWAMALA COMPOUND, SHILA-PRAVANG & RADONA.

100 years of Excellence in Ayurvedic Remedies.

Depots and Distributors in prominent cities and dealers all over India.

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MACHINE TOOLS & IMPLEMENTS
(on D.G.S.D. & RLY.'s list since 1948)
93/95, Narayan Dhuru Street,
Bombay 400 003.
Phones : 322268, 322269. Grams : "MACHTOOLS".

Importers & Stockists of :
Ball, Roller & Taper Roller Bearings of every make.

BALL & ROLLER BEARINGS

MASRANI MILLGIN STORES

46, Nagdevi Cross Lane, Bombay 3.

Direct Importers & Stockists of : Ball, Roller & Taper Roller Bearings. Specialists in **STEEL BALLS.**

Phones : 321646 (Office), Grams : " BEARINGS ".
476725 (Res.).

BALL & ROLLER BEARINGS

BALL & ROLLER BEARING CO.

Over a quarter of million items of Ball & Roller Bearings are available through us to satisfy every imaginable bearing need, Bearings of non-Standard Sizes and types is our Speciality

G.P.O. Box No. 1104, Bombay 400 001.

Phones : 298322, 253623.

BALL & ROLLER BEARINGS

RAJNIKANT & CO.

Stockists of everything in Ball, Roller, Thrust Bearings, Steel Balls and Pedestals ; Authorised Stockists of KOYO, BBL and NORMA Bearings.

Distributors : IBC Bearings.

19, Bibijan Street, Post Bag No. 3347,
Bombay 400 003.
Phones : 329219 & 321292. *Res. :* 524324.
Grams : " ROWBEARING ".

BALL & ROLLER BEARINGS

ANIL BEARING STORES

163, Narayan Dhuru Street, Bombay 400 003.

Authorised Distributors :
SKF BEARINGS
Grams : " CHEAPSTORE ". Phones: 323552, 328226.
Indenting Division

ANIL BEARING AGENCIES

163, Narayan Dhuru Street, Bombay 400 003.
Grams : 'ANILAGENCY'. Phone : 323552.

Authorised Indenting Agents SKF Bearings (Manufactured by SKF Overseas Factories).

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15, M. P. Marg (New Queen's Road),
Bombay 400 004.

Phones : 354412-352058, (Resi.) 473703.

Telex No. 011—3561.

Grams : " RICEMILL ".

Sole Distributors for :
Torrington and Steyr Bearings in India.

BALL & ROLLER BEARINGS

Write to :

BHARAT TRADING CO.,

63/69, Nagdevi Cross Lane,
Bombay 400 003.

Phones : 323250, 324338.

Grams : " FANBEARING".

BALL & ROLLER BEARINGS

amco
BEARING CORPORATION

139A, Abdul Rehman St., Bombay 400 003.
Phone : 338688

ASK FOR THE GENUINE BEARINGS

Importers and Stockists of : Industrial & Automobile Ball Roller, Taper Roller, Thrust & Needle Roller Bearings, All Kinds of Steel Ball, Needle Rollers and Plumber Blocks.

BALL & ROLLER BEARINGS

Grams : ' LIONPOWER '. Phone : 329650.

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26, Sarang Street, 2nd Floor, Bombay 400 003.

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- Sodium Sulphide Solution
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Head Office :
Haji Adam Mansion, 2nd Floor, Homji Street, Fort, Bombay-1.
Phone : 267696. Grams : 'CHAWLACHEM'.
Telex : 011-2858-Chawla.

Factory :
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Factory : Kolshet Road, Balkum, Thana. Phone: 591379.

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Grams : "MICROBE". Phone : 471962, 476960.

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2132, " Chemical House ", Tilak Bazar, Delhi-6.
Grams: " CHEMHOUSE ". Phones: 267251-2-3.

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Telex : 011-3427.
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Phone : 44082. Grams : " METACHEM ". Telex : 031-698.
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Butyl Acetate : Messrs. Somaiya Organics (India), Ltd.
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Manufacturer & Supplier of Electroplating requirements and fine Chemicals of precious metals ; Palladium Chloride, Palladium Oxide, Platinum Chloride, Platinum Oxide, Gold Cyanide, Gold Potassium cyanide, Silver Sodium cyanide, Copper Cyanide, Copper Potassium Cyanide, Copper Sodium Cyanide, Cadmium Cyanide, Cadmium Oxide, Zinc Cyanide, Zinc Sodium Cyanide, Nickel Potassium Cyanide, Nickel Sodium Cyanide, Nickel Sulphate, Nickel Chloride, Sodium Stanmate, Potassium Stannate, Tin oxide, Vat & Barrel Anodes, Ready to use electroplating Salts of Gold Silver, Copper, Cadmium, Zinc, Tin & Mercury Brighteners of Zinc & Nickel.

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Regd. Office :
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Telex : " PROJECT " 011-3353.

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General Manager : Abbas Y. Jasdanwalla.

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Telex : 3530.

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Phone : 323998.

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Regd. Office and Export Division : 3482, Netaji Subhas Marg, Delhi 110006. Phone 27-6130.

Showroom and Local Sales : 4/14-A, Asaf Ali Road, New Delhi 110001. Phone : 27-4361.

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Phone : 632272.

Works : P. O. Amar Nagar, Faridabad (Haryana).
Phone : 5581.

Contact Phone : 631035.

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H.O. : Ishwar Nagar, New Delhi.
Phone : 632272.

Works : P.O. Amar Nagar, Faridabad (Haryana).
Phone : 5581.

Contact Phone : 631035.

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Phone : 298282. Grams : " SEEDS ".

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Phone : 261871-73. Grams : " BELEAST ".
Telex : 3143.

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Marketeers of LIME and SILICA SAND

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Delhi : P.O. Box 621. Telex : 3293. Grams : " BELEAST ".
Madras : P.O. Box 91. Grams : " BELEAST ".

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(Estd. 1941)

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Phones : 314251, 314252. Grams : "MANSETACOY".

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Telex: AJITIND 011-2802.

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CALCUTTA: Bombay Mutual Building, 9, Brabourne Road, P.O. Box 152. Tel.: 225541/2/3. Tele. Address: " GETZBRO ".

MADRAS : 330, Thambu Chetty Street, P.O. Box 1706. Tel.: 22134. Tele. Address: " GETZ ".

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Telex: 014-226. Grams: " KICONS ".

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Telex: 01-210. Code: FILTER-BO

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Phone : 259161. Grams : " NIASURANCE ".

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INDIAN TRADE & GENERAL INSURANCE CO. LTD.

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(Estd.: 1908)

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Phone : 311273. Grams : " SMATHURCO ".

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Phones: Office : 319737, 259733.
Factory : 595056.

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Telex: 011-2378; AB: OOSEVEN.

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Phones: 378221-2.

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Jogeshwari, Bombay-60.

Telegrams :
Office : " STELLIDES "
Bombay-1.
Factory : " STELLIDES "
Bombay-60.

KERALA FACTORY :
P. B. No. 2, Perambavoor P.O.
Gram : " STELLIDES ".
Phone : 325.

Telephones :
252597 : City Office
571880 : Factory
521561 : Residence

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Phones : 582461-62-63. Telex : 011-3495.
Grams : " ECHJAY ".

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PIONEER ENGINEERING WORKS

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Phones : 32671 & 32416. Grams : " MOULDING ".

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THE TRIVENI ENGINEERING WORKS LTD.

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Phones : 319, 239. Grams : " SANGAM ", NAINI.
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Lake Road, Bhandup, Bombay 78.

Phone : 582034. Grams : CLUTCHDISC,
Bombay-78.

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Office : Petit Compound, Nana Chowk, Grant Road, Bombay 7.
Factory No. 1—As above.
Factory No. 2—100 Upper Duncan Road, Bombay 8.

Phone : 358061. Grams : " EXPELPART ".

Partners : Ramniklal R. Gandhi, Rasiklal R. Gandhi, Vrajlal R. Gandhi, Kanubhai R. Gandhi.

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Manufacturers of :

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Factory :

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Branches at :
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20/1, Asaf Ali Road, New Delhi 1.

Depots at :
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Head Office :
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Marble & Tiles Merchants,

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Residence: 359908.

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Grams : "AMEETRUCK". Phones : 88106, 88337.

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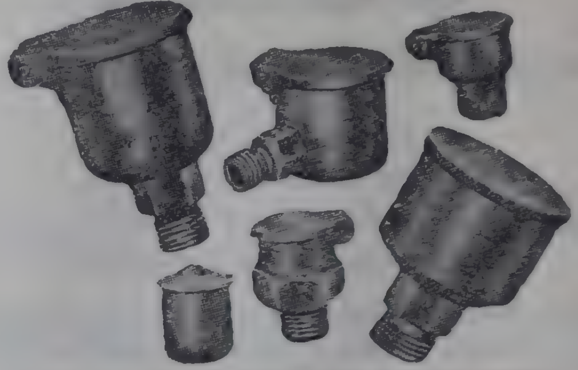

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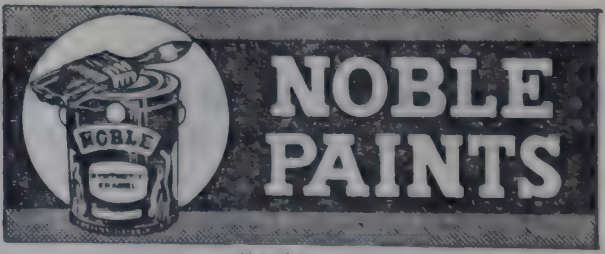

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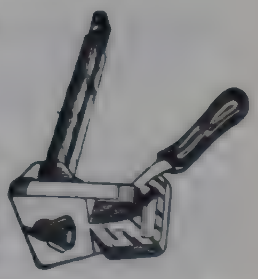

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D-24, Defence Colony (Link Road),
New Delhi 110 024.
Phone : 62-3896.

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Phone : 263001. Telex : 011-2624 Bombay.
Grams : "DUTYBOUND".

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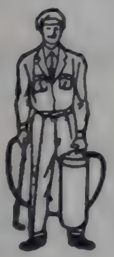

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Phones : 25295, 23047 & 23048.

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Bombay Sales Office :
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Factories :
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(2) Plot No. 81, MIDC Estate, Satpur, Nasik 7. Phone : 3672.

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Factory : Andheri-Kurla Road, Bombay 400 059.

Phone : 571291.

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Registered Office:
Dr. Annie Besant Road, Bombay 400025

Phones: "BOMBAY", H.O.: 454311, 453226, 457759, 451101; Bombay Branch: 457286 (5 Lines); Calcutta: 459195 (4 Lines); Madras: 801944 (3 Lines), New Delhi: 632269 (5 lines).

Manufacturers of Pharmaceuticals, Corticosteroids, Antibiotics, Vaccines, Infant Foods, Nutritional Supplements, Fine Chemicals, Laboratory Chemicals, Animal Feed Supplements and Veterinary Products.

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Dacchambers, 25, Dalal Street, Bombay-400001.

Phones: 256561, 256907.

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Grams: 'HOFROCHE'—Bombay. Telex: 2169.

Pharmaceutical Laboratories :
24/26, Tardeo Road, Bombay 400034 Phone: 379921 (9 Lines)

Fine Chemical Works: Bombay-Agra Road, Balkum (Dit. Thana).
Phone: 593508 (2 Lines)

Delhi Regional Office: Roche Products Ltd.,
58, Ring Road, Lajpatwagas III, New Delhi 110024.
Phone: 622632 Grams: 'HOFROCHE' New Delhi.

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Telex: 021-7773. Phones: 23-2165-67 (3 Lines).
Gram: "RASAYAN".
Bombay Office: 502, S. V. Savarkar Marg,
Bombay 25(DD).
Telex: 011-3332. Phone: Bombay : 452261.
Gram: "RASAYAN".
Kanpur Office : Factory Area, Fazelganj, Kanpur.
Telex: 032-267. Phone: Kanpur : 63216.
Gram: "RASAYAN".

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Pharmaceuticals, Chemicals & Cosmetics

Regd. Office :
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Bombay-400018.
Tel. Nos. 377191-92, 374406, 374409, 374498.
Grams : "INTERFRAN".

Factory :
Majiwada Village, Thana, Maharashtra.

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Manufacturers of Pharmaceutical Products.

Office : 304, S. Gandhi Marg, Bombay-400002.

Depot : Brijwasi Bungalow, I. B. Patel Road, Goregaon (East), Bombay-63.

Grams : "SACCHARIN".

Factory : Tablet House, Near Anupam Talkies, Goregaon (East), Bombay-63.

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PARKE DAVIS (INDIA) LIMITED

Pharmaceutical Manufacturers

Administrative Office & Factory :
Saki Naka, Bombay 400072.
Phone : 581471 (8 lines).

Telegraphic Address : "CASCARA," Bombay 400001.
Post Box No. 88, Bombay-400001.

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THE BOOTS CO. (INDIA) LTD.

Registered Office : 17, Nicol Road, Bombay 400001.
Phone : 266981. Grams: "DRUGBOOTS", Bombay.

Factory : Sion, Bombay 400022.
Telephone: 476351. Grams : "BURNOL", Bombay.

Sales Division :
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Bombay 400011.
Phone : 370427. Grams : "STREPSILS", Bombay.

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Grams: "MACLON". Phone: 265051.

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Ahmedabad Depot: Ankur Building, Near Mono Chemist, Mirzapur Road, Ahmedabad; Grams: "ABBOTTLAB".

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Calcutta Depot: 20, R. N. Mukherjee Road, Calcutta-1.

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Phone : 458241.

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Delhi 6. Phones : 276687 & 276515.

Branch : 89, Ramah Mundi, Jullundur Cantt.
Phone : 8452.

25, Noya Ganj, Ghaziabad (U.P.). Phone : 3277.

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Factory :
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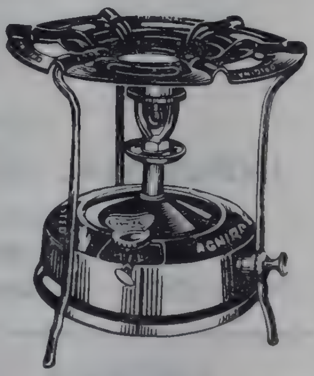

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330, Thambu Chetty Street, Madras.
Phone: 23436. Grams: "PUMPMEN".

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TALWALKER BROS. PVT. LTD., W.R.

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Regd. Office: Sir Vithaldas Chambers, 16, Apollo Street,
Bombay-1.

Trade Enquiries to Sales Division at
392, Veer Savarkar Marg, Bombay 25 (DD).
Phones: 456221/5. Grams: " COVERCLOTH ".

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waco

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Office : Sukhsagar Bldg., Hughes Road, Bombay 7.
Phones : 355231, 355232,
Factory : Ulhasnagar 4, Opp. Vithalwadi, C. Rly. Stn.
Maharashtra State.

Manufacturers of: WACO-SANYO Transistor Radios, P. A. Amplifiers, Intercom Equipments, Hi-Fi Stereo Amplifiers, Stereo amplifiers, Radiograms, Cassette Tape recorders, Electronic Equipments for Defence Service, Transformers & Loudspeakers.

RADIOS & COMPONENTS

M. C. ENGINEERING CO.

Manufacturers of :

Telescopic Aerials, Car Aerials, Tape Aerials, Whip Aerials, Television Antennas, Speakers, Gang Condensers, Toggle Switches, Valve Holders, Valve Sockets, Jewel Lights and other electronic parts.

220, Okhla Industrial Estate, New Delhi.
Phones : 63-2186, 63-2161, 631985.
Grams : "NEWMAN".

RADIO PARTS, COMPONENTS MFRS.

TELECOM INDUSTRIES PVT. LTD.

61, Dr. S. S. Rao Road, Parel, Bombay 12.

Manufacturers of : Wooden Radio Cabinets, Radio Dials, Printed Circuits, Decorative Wood Veneers, Decorative Plywood, Furniture and RF Dielectric & Induction Heating Equipments for Plywood, Furniture & General Engineering Industries.

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Radio Receivers and Radio Parts Suppliers.

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Telex : 011-2991.

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Regd. Office & Works : Budlapur Road, Ambernath, Maharashtra. Phones : 11 to 16.

Delhi : 22, Malcha Marg, Chanakyapuri, New Delhi 11. Phones : 372213, 278154. Telex : 610.

Calcutta : 11 Floor, 20, Maharishi Debendra Road, Calcutta 7. Phones : 336426, 550531. Telex : 7970.

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Manufacturers of :
Rayon Yarn, Sulphuric Acid, Anhydrous Sodium Sulphate & Carbon-di-Sulphide.

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Phone : 255881. Grams : "RAINBOW".
Telex : (FATEH) 011-3436.

Regd. Office : Udhna, Surat.
Gram : "RAINBOW". Telex : BRC 18217.
Phone : 88371.
Managing Director : Shri V. K. Shah.

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Licensees of : Westinghouse Brake & Signal Co. Ltd., London for manufacture of Rectifiers, Battery Chargers, Electro Plating Sets, Silicon Power Plants, Thyristors.

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Registered Office :
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Phones : 592432 & 592433.
Grams : "HIRECT", Bombay 78.

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Administration Office : Jawaharmal Mansion, 3/15,
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Phones : 271926 & 27. Grams : " RECTIFIER ".

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Works : P.O. Amar Nagar, Faridabad (Haryana).
Phone: 5581.

Contact Phone: 631035.

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Phone : 377381. Grams : " PIJIAR ", Bombay-400006.

Factory for Rivets :
B/16, Industrial Estate, Indore (M.P.).
Phone: 33672. Grams: " PIJIAR ".

Factory for Gears and Gear Boxes :
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Plone : 581368. Grams : GEARDRIVE.

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Bombay 400001.

Phones : 256770, 250819.

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STAR ROLLING SHUTTER MFG. CO.

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Phones : 334315 (Office) ; 578204 (Resi.)

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Factory at Santa Cruz. Phone : 537311.

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Phone : 322485. Grams : " RAJKOTWALA ".

ADAMJI KADERBHOY

(Estd. 1894)

337, Katha Bazar, P.O. Box 5046, Bombay 400009.

Manufacturers : Stockists of Manila, Sisal, Hemp, Wire and Coir Ropes, Coir Mattings, Jute Ropes and Products, Flax, Twines, Cordages, Flax Canvas and Tarpaulins, Chains, Chain Slings and all kinds of lifting Tackle and Shipchandlery Stores. Exporters and Importers.

Selling Agents :

The Ganges Rope Co. Ltd., Calcutta.

ROPES & TAPES MFRS.

TODI & CO.

Manufacturers of :

Ropes, Webbings, Cordages & Tapes in Cotton, Nylon, Rayon or Silk.

Office :

Todi Estates, Lower Parel, Bombay 400013.

Sales Office & Works :

Tulsi Pipe Road, Lower Parel, Bombay 400013.
Phone : 371336 (5 Lines).
Grams: ' OFFER '.

ROPES & TWINES

M. M. A. RASIWALLA & CO.

(Estd. 1910)

17, Janjikar Street, Husseinbhai Building, Mandvi, Bombay 400003.
Phone : 324111. Grams : " TWIST ".

Proprietors of : Maharashtra Rope Factory, Pipe Road, Kurla, Bombay 400024. Phone : 551312.

Manufacturers of : Cotton Ropes, Thread, Twine and all sorts of Fishing Lines.

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THANAWALA, B., & SONS PVT. LTD.

Manufacturers of : " National " Cotton Driving Ropes & Spindle Tapes, etc.

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Phones: 318611 Grams : " ENGINEROPE.

Factory : 591440. Telex No. 011-3613.

Manufacturers of :
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TRADE MARK
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ESTD: 1927

ROPERIES

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207-209, Nagdevi
Street, Bombay
400003.

Stockists of :

Manila, Sisal Ropes, Spun Yarn & Synthetic Ropes etc. *Manufactures of :* Rope Ladders, Slings & Nets, Cotton & Jute Ropes, Tubular Bindings, Twines, Strings, Line Dori, Jute & Hemp Healed Cord, Webbings, Tapes, Cotton & Nylon & " Jute Newars " Nylon Straps & Mechines.

Phones : *Office :* 324944 ; *Res. :* 359614. Grams : "KACHERIA".

ROPERIES & SHIPCHANDLERS

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Tel. No. 322485. Grams : " RAJKOTWALA".

Manufacturers and Stockists of Cordage, Manila Coir, Hemp & Cotton Ropes. Approved Contractors to Govt., Rlys. and Steamship Companies. Exporters of Coir Products. Selling Agents for : The Ganges Rope Co., Ltd., Calcutta.

ROSIN, TURPENTINE, ESTER GUM, PINE OIL & SYNTHETIC RESINS

PRABHAT GENERAL AGENCIES

Manufacturers of :

Pine Oil, Terpeneol, Terpinolene, Dipentene, Veg. Turpentine, Modified Phenolics, Mallics, Alkyds, Pine Tar gum, Rosin etc.

195, Kalbadevi Road, Bombay 400 002.
Phone: 310359 (3 Lines).

ROSIN & TURPENTINE

EMPEE CORPORATION PVT. LTD.

44, Cawasji Patel Street, Bombay 400 001.

Selling Agents of :

" CHIR " brand Rosin & Turpentine
to I.S.I. Grade.

Grams : " ROSTURP " Phone : 257782

RUBBER FACTORIES

ARVICO RUBBER INDUSTRIES

Khanna Dyeing Compound, 38, Sonawala Estate,
Goregaon (East), Bombay 400 063.

Manufacturers of :

Natural, Neoprene, Hypalon, Nitrile, Butyl Rubber moulded goods as per Customers' drawings and Specifications & Neoprene bridge bearing Pads.

Phone : 692474.

RUBBER GOODS MFRS.

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402, Veer Savarkar Marg, Prabhadevi, Bombay-400 025.

Manufacturers of : Rubber Ebonite Rollers, Rubber-lining of Tanks & Industrial Articles of Rubber Ebonite.

Phone : 451965.

RUBBER GOODS MFRS.

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Manufacturers of :

Rubber and Ebonite Lining of Rollers, Tanks, Valves, Pipe Lines etc. Any type of Rubber Compound, Microcellular Sheets and Moulded Goods as per Specification.

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Office : 221, Dr. Dadabhoy Naoroji Road,
Fort, Bombay-400 001.

Grams: "CARONASAHU". Telephone: 267821 (8 lines).
Telex : 011/2961.

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Duckback-Rubber goods viz. Hot Water Bags, Ice Bags, Inflatable Bed Pan, Hospital Sheeting, etc.

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Phones: 254594/254479.

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Bombay 1.

Manufacturers of: 'PREMIER' Cycle and Rickshaw and Moped (Auto-cycle) Tyres & Tubes Vacuum Brake Hoses & other Rly. Fittings Spong Sheets, Rubber Foot Board Mattings Rubberised Texture cloth, Insertion & Solid Sheets, Adhesives.

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For

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Rubber Rollers
Rubber Products

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INDUSTRIAL LININGS

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Bombay 2 (BR).
Phone: 311809.

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EKOMECH ENGINEERS

69, Government Industrial Estate,
Kandivli West, Bombay 67.

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Phones: 692883, 694072.

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Ist Avantibhai Gokhale Street, Sandhurst Road,
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Manufacturers of:

'O' Rings, Oil Seals, Bushings, Gaskets, Grommets, Rolls, Diaphragms, Rollers, Dics & Extruded sections from Natural, Nitrile & Neoprene Rubber; Made to Rigid Specifications & Prompt delivery.

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Phone: 454072 (Bombay)
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Manufacturers of Industrial Moulded Rubber Products to Drawing and Specifications, for Textile, Rayon, Chemical, Pharmaceutical & Engineering Industries, for original and replacement requirements in Natural & Synthetic Rubbers, and in Ebonite.

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All kinds of Moulded Rubber Goods—Hot Water Bottles, Ice Cap, Swimming Cap, Football Bladders, Cricket Grips, Car Suspension Bushing kits, Shoe Solling Sheets, Printing & Industrial Rollers and also Latex Rubber Bladders.

Regd. T. M. "CORONATION."

Phones: { Delhi Office: 228298 & 229298.
Gurgaon Factory: 452.

RUBBER GOODS MFRS. & DEALERS

MERCHANT BROTHERS

151, Nagdevi Street, BOMBAY 3.

Phones: *Office:* 326840. *Grams:* "YOUTH".
Resi.: 360056.

Authorised dealers of: DUNLOP & GOODYEAR

Rubber Hose, Beltings, V-Belts, Trolley Wheels, Fire-fighting Equipment, Rubber Sheets, Insertions, Rubber Gloves, Gum-Boots, Plastic Pipes & Fittings, Oil Resistant Neoprene Sheet & Other Moulded Parts, etc.

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RUST PREVENTIVES MFRS.

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Dealers in Sanitaryware & Manufacturers of " BILMAT " Bathroom Fittings.

Office & Showroom :
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Phone: 253042. Grams: " BILMAT " — Bombay.

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VINUBHAI CHANDULAL & CO.

Authorised Distributors of the famous 'Vitreous China', 'H' Brand Sanitarywares, by M/s. Hindustan Sanitaryware & Industries, Ltd. (formerly M/s. Hindustan Twyfords, Ltd. manufactured in collaboration with M/s. Twyfords, Ltd. England), C.P. Bright Bathroom Fittings, Mixing Showers & Cocks of 'METRO-KENT', Glazed Tiles by Somany Pilkingtons and all kinds of Pipes & Fittings.

63, Nagdevi St., Bombay 3 (BR).

Phones: 324282 & 329141. Grams: 'STONEWARE'.

SANITARYWARE & PIPE FITTINGS

K. GIGABHAI & SONS PVT. LTD.

8-10, Green Street, Fort, Bombay 1.
Phone: 258173.

Agents : 'BESTOLITE' Toilet Seats, 'BLUE BIRD' C. I. Bath Tubes, 'ARAWALI' Fibreglass Bath Tubes.

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Manufacturers of :

Stoneware Pipes, Fire Bricks & Castables, Cements, Insulating Bricks and Cements, Acid Resisting Bricks & Cements, Sillimanite Bricks and Mortars etc.

H.O.: Ishwar Nagar, New Delhi.
Phone: 632272.

Works : P.O. Amar Nagar, Faridabad (Haryana).
Phone: 5581.

Contact Phone: 631035.

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Sole Selling Agents for Maharashtra, Gujarat & Goa :
KENT MOSAICS

Authorised Distributors :
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Stockists : Marble—Metro & Omega Chrome Bathroom Fittings, Fibreglass and Enamelled Bath Tubs.

Hanuman Bldg., Behind Reserve Bank, 310, Perin Nariman St., Bombay 400 001.
Phones: 268481, 268488. Grams: " FASHION ".

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STEEL BALLS, ALLOY BALLS, BRASS BALLS

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.

Manufacturers of :

STEEL BALLS (Sizes : ⅛" dia. to ⅝" dia. used in Bicycles & Ball Bearings).

Also, MINIATURE STEEL BALLS (Sizes : 1 mm to 2·5 mm. used by Ball Point Pen Industry, Precision Instruments and miniature Ball Bearing Industry).

Regd. Office : Pandyan House, 4th Floor, 309, Sahid Bhagat Singh Road, Bombay 1.

Grams : "GULDASTA". Phones : 261522/3.
Telex: Haven 011-3398.

STEEL FURNITURE & EQUIPMENT

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Manufacturers of :

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H.O. :
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Phones : 511380 & 515581.

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Manufacturers of : Steel Furniture & Equipment for Offices, Homes, Hospitals, Canteens, Libraries, etc.

Executive Office & Works :
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STEEL FURNITURE & OFFICE EQUIPMENT MFRS.

Security Equipment, Safes, Steel Furniture for Office and the Home, Typewriters, Refrigerator, Machine Tools, Fork-Lift Trucks, Metal windows, Steel Tubing, Locks, Steel Castings.

GODREJ & BOYCE MFG. CO. PVT. LTD.

Head Office : 4A, Home Street, Bombay 400001.
Phone: 268371.
Works : Vikhroli, Bombay 400079. Phone: 582621.
Lalbaug, Bombay 400012. Phone: 442271.

STEEL TUBULAR POLES

BOMBAY TUBES & POLES CO.

Manufacturers of :

Tubular Poles, Street Lighting Poles, Ship Mast, Boring Casing Pipes large Dimension of Pipes.

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Phone : 378427.

Grams : ' TUBESPOLES '.

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NEW DHOLERA SHIPPING & TRADING CO. LTD.

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Telegram: " RAVASIA ", Bombay.

Telephone No. 254455.

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Master Stevedores, Dubashes,
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DARABSHAW B. CURSETJE SONS (Bombay) PRIVATE LTD.

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Bombay 400001 (BR).

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Stevedores, Bunkerers, Dubashes, Landing, Victualling, Chipping & Painting Contractors, Clearing, Forwarding & Insurance Agents.

Scindia House, Narottam Morarjee Marg,
Ballard Estate, Bombay 400001.
Phone : 262461. Grams : " VAVTO ".

Directors : Smt. Sumati Morarjee (*Chairman*), R. P. Vevaina, J. C. Nanavati, S. P. Patel, Dhirajlal Maganlal Dalal, Ambalal Kilachand, S. C. Sheth (*Mg. Director*).

STEVEDORES & MARINE CONTRACTORS

HILL, SON & DINSHAW PVT. LTD.

Stevedores & Marine Contractors.

Managing Directors : Dinshaw A. Dhunjibhoy and Menos Dinshaw.

Marshall's Building, Ballard Road, Fort, Bombay. Phone Nos. (Head Office) : 26-2281, 26-2282 and 266105 ; Sholapur Street (Godown) : 333133 ; Darukhana (Godown) : 378975 ; Secretary (Residence): 213113 ; Manager (Residence) : 213065 ; Grams: " HATCHWAY ", Bombay.

STONEWARE PIPES & FITTINGS

DURGA ENTERPRISES PVT. LTD.

Manufacturers of :

Stoneware Pipes & Fittings & also manufacturers of Refractories, Fire Bricks, Fire Cement and Bottom Pouring sets, Sillimanite Bricks for rotary kilns.

H. O. : 10, Daryaganj, Delhi 110006.
Phone : 27-7871 (5 lines).

Regd. Office & Factory :
P. O. Malaknagar, Ghaziabad (U.P.).
Phones : 2268, 2272, 2871.

SUGAR MILL MACHINERY MFRS.

BUCKAU WOLF NEW INDIA ENGINEERING WORKS LTD.

Manufacturers of:—Sugar Mill Machinery.

Bombay Office : "Nirmal", 16th Floor, Central Wing, Nariman Point, Bombay.
Phone : 293534. Telex: 011-4074.

Poona Office & Works:—Pimpri, Poona-18.
Phones : 8264 & 8265.
Grams: "DEVCORP."
TELEX: PN — 267.

SURGICAL INSTRUMENTS & APPLIANCES

IMPERIAL SURGICAL CO. PRIVATE LTD.

"India House", Opp. G.P.O., Fort, Bombay 400001.

Leading Manufacturers of : Hospital Equipment, Importers of Surgical Instruments, Hospital Sundries, Catguts and Ligatures, Dental Instruments, Electro-Medical Equipment. *Agents :* "ISCOMED" Syringes and Needles. Also "ULTRADENT" Dental Equipments, Sterilizers, Shadowless Lamps, Suction Apparatus and other Equipments. Grams: "IMPSURGCO".

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Branches at : Lucknow, New Delhi and Hyderabad.

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Pioneers Dumpy levels, Theodolites Mining Dials, Compasses, Planimeters, Tracing Papers, Tracing Clothes & Office Stationers.

223, Himalaya House, 79, Palton Road,
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Phone : 267850.

Head Office : 43, Ezra Street, Calcutta 700001.
Phone : 341134. Grams : "NOBLETRADE".

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Indian SWEETMEAT Mfrs. & Exporters

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The wholesome Treats & Lovely Gifts for all occasions. Export orders promptly executed.

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SWITCHES

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CENTRIFUGAL SWITCHES

For ELECTRIC MOTORS, GENERATORS, ETC.

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Phone : 359710. Cables : "OTCASNART".

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REYROLLE BURN LTD.

Esplanade House, Waudby Road,
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Phone : 266115. Grams : REYSAFETY.
Telex : 2333.

Regd. & Head Office :
12, Mission Row, Calcutta 700002.

Branches at :
Delhi, Kanpur, Patna.

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AUSTRALIAN & INDIAN Collar White Mutton Tallow.

Importers, Manufacturers & Stockists.

Phones: 252445/6, 293575. Grams : "SUNMART".

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'DUCK'

TARPAULIN

MOST TRUSTED NAME

DWARKADAS VELJI TALPATRIWALA

135/137, Kazi Syed Street, Bombay-3.
Tel.: 323232. Grams: "VELTHAKKER".

Developed new Light, Strong, Flexible Duck Poly Tarpaulin.

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DAISY TRADING CORPORATION

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Material: Tarpaulins, Waterproof Canvas, Tents, Hessian, Bituminised Bags, Tarpaulins of any size.

402, Navjivan Bldg., 125/27, Kazi Sayed Street,
P. O. Box No. 3185, Bombay 3.

Phones: *Office*: 327007; *Resi.*: 661129.
Grams: "PROOFTALP".

TARPAULIN

JERAM SHIVJI & SONS

138, Futnani Chambers,
Yusuf Meherali Road, Bombay 3.

Stockists of Tarpaulin, Hessian, Jute Gunny Bags, Twines, Cotton Canvas, etc.

Phones: *Office*: 320326; *Resi.*: 473944.

TARPAULIN

SWASTIK TARPAULINS MANUFACTURING CO.

Manufacturers, Exporters of:

Waterproof Tarpaulins, Lorry & Wagon Covers. Erection of Temporary Monsoon Sheds undertaken.

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Phone: 338831. Grams: "DUCKCOVERS".

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RATANSHI LALJI

56-H, Rasul Jiwa Compound, K. Khade Marg,
Jacob Circle, Bombay 11 BC.

Manufacturers, Exporters

Waterproof Processors, Suppliers for Industrial use.

Phones: 379033, 375968.
Grams: "RATANKARIA".

TAXI-METERS & PRECISION INSTRUMENTS

R. C. EDWARDS & CO., PRIVATE LTD.

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Manufacturers of:—ARGO Taxi-meters, Kienzle Vibracorders and other Precision Instruments.

Chairman, Board of Directors:—Sardar Bahadur Bakshi Dalip Singh.

Managing Directors:—Major Jagtar Singh, Mrs. Anup.

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TEA MERCHANTS

AMBER TIPS PRIVATE LIMITED

Tea Blenders and Package Tea Packers.

75, New Bardan Lane, Mandvi, Bombay 3.

Phone No. 324684.

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"ALLIANCE", 94, Nagdevi Street, Bombay-3.
Phones: 322215/329122.

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3. AIRSHIP High Pressure Wire Reinforced
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5. ASBESTOS BRAIDED HIGH PRESSURE HOSES
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Exporters and Manufacturers of :
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C, Geeta Bhavan, Bombay 400 036.
Phone: 367920. Grams: PHONESUPER.

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Expert service under foreign trained engineers. Arrangements for home servicing—T.V. Antenna Installation.

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D-16, Defence Colony, New Delhi-3.
Phone : 62-6751.

TENTS

LAL SINGH SETHI & SONS

Prop.: New Delhi Tent House.

Manufacturers & Exporters of :
Tents, Garden, Surveyor's and Black Umbrellas, Tarpaulin, Cotton Tape Newar, Ropes etc.

H.O. : Kamla Market, New Delhi.
Export Office: 271, Frere Road (Goa St.), Bombay 1.
Phone: 266349.

TEXTILE ANCILLARIES

NEW INDIA INDUSTRIES LTD.

H.O. & Works : Jetalpur Road, Baroda.

Foremost Manufacturers of : 'INDIA' brand best Egyptian Cotton Healds, Steel Reeds, Brass Reeds, Striking Combs, Dobby Harness without Rubber, CYCLE brand Wire Healds, All Metal Reeds, Jute Combs, Jute Reeds, SWAR brand Egyptian Cotton Yarn and Staple fibre Yarn, AGFA GEVAERT Cameras & Photographic Papers.

Bombay Office : Industrial Assurance Bldg., 5th Floor, Churchgate, Bombay 20.
Phones : 293660, 293704.

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D. PARIKH ENGINEERING WORKS

Hydro Extractor Machines, Drum Washers, Colour Mixing Pans, Sizing M. Kettles, Machinery Parts like s.s. J. Box, s.s. Rolls, Cylinders, Troughs, Tanks, Perforated Beams etc.

115, Marol Co-op. Industrial Estate, Mathuradas Vissanji Road, Near Saki Naka, Bombay 59.

TEXTILE AUXILIARIES

AHURA CHEMICAL PRODUCTS PRIVATE LTD.

Manufacturers of:—All Textile Auxiliaries, Surface Active Agents, Turkey Red Oil, Synthetic Anionic Detergents and Wetting Agents, Non-ionic Emulsifiers for various Industries, Cationic Germicides and Softeners, Cosmetic Raw Materials and Other General Chemical Products.

Address:—84, Sion Road, Bombay 22.
Telephone Nos:—471394/96.
Telegrams:—" AHURACHEM ". Telex: 011-3917.
Managing Director:— S. M. Mistry.

TEXTILE AUXILIARIES

ESKAY CHEMICAL CORPORATION

Makers of Quality Products
SKAYWHIT Fluorescent Whitening Agent
ESKAYGENE Printing Dyestuffs
ESKAYLAN Synthetic Detergent

22D, Parsi Bazar Street, Fort, Bombay 1.

Phone : 256305. Grams : " ESKAYCHEM ".

TEXTILE AUXILIARIES MFRS.

PICKERS LIMITED

Head Office : Ellis Bridge, Ahmedabad 6.
Phones : *Office*, 79637. *Factory*, 31755.
Branch : 43, Tamarind Lane, 4th Floor, Fort, Bombay 1.
Phone : 317104.

Manufacturers of :
Quality Pickers of all sizes & Description for the Textile Industries.
Grams : " COWSIE ", Bombay, Ahmedabad.

TEXTILE AUXILIARIES

DR. YAJNIK'S KEMICOLOR INDUSTRIES

Manufacturers & Dealers :
CONC TEXTALLOW WETTING
AGENTS, DETERGENTS, FINISHING
AGENTS, BINDERS, PIGMENTS & TEXTILE
AUXILIARIES, SYNTHETIC RESINS ETC.
193-195, D. N. Road, Fort, Bombay I.
Phone : 261192. Grams : " COLORCRAFT ".
Distributors : ALL OVER INDIA.

TEXTILE CHEMICALS MFRS.

SARDESAI BROTHERS LTD.

Regd. & Head Office :
82, Advent, 12-A, Gen. Jagannathrao Bhonsle Marg,
Bombay I. Phone: 253004.
Factory at : P.O. Sardesai Factory, Billimora (W. Rly.).
Phones : 464, 465 & 384. Grams : " SARDESAI ".

Manufacturers of :

Speciality Chemicals for Textile, Rayon, Wool, Jute, Paints, Paper, Petroleum & Leather, Additives, Synthetic Resins, Adhesives, Emulsifiers, De-Emulsifiers, Carboxy Methyl Cellulose, Monochloro Acetic Methyl & Ethyl Esters of M.C.A., Acid, Industrial Alcohol, EDTA.

TEXTILE ENGINEERS

ORMERODS (INDIA) PVT. LTD.

Importers & Exporters & Mill Gin Stores
and Filter Cloths Suppliers.

Address : Bank of Baroda Bldg., Apollo Street,
Bombay I.

Phones : 255434/35 (2 lines). Grams : "RAMSHEAD".

TEXTILE ENGINEERS

KUMUDCHANDRA & CO.

(Estd. 1938)
Accessories for Textile Spinning, Weaving, Winding
and Man-made Fibre Plant.

29, Dalal Street, Fort (P.O. Box No. 824),
Bombay I.

Phones *Office :* 258114
Godown : 264437 Grams: "VERYGOOD".

TEXTILES & JUTE MACHINE MFRS.

JOHN T. HARDAKER (INDIA) PVT. LTD.

Jacquard Machines Makers, Harness Builders, Card Cutters and Designers and General Engineers.

Office & Works :
Fergusson Road, Lower Parel, Bombay 13.

Phone : 373469.

TEXTILE PROCESSING MACHINERY

Bleaching, Dyeing, Printing & Finishing

MATHER & PLATT LTD.

Engineers & Contractors.

8, Graham Road,
Ballard Estate, Bombay I.

Phone : 269651.

Offices : Calcutta, Delhi & Madras.

TEXTILE MACHINERY

THE STAR TRADING CO., PVT. LTD.

Importers of Textile Machinery, Exporters of Textile Machinery & Light Engineering Goods, Handling turnkey projects for establishing textile Mills abroad.

Dhanraj Mahal, Apollo Bunder Road,
Bombay-I.
Phones : 251357 (4 Lines). Grams : "STARTRADE."
253480 (Directors). Telex : 2654.

TEXTILE MACHINERY

CALICO INDUSTRIAL ENGINEERS

Manufacturers of :

TEXTILE WET PROCESSING MACHINERIES

Office & Factory :
20A, Chakala Road, Andheri, Bombay 400093.
Grams: "WETPROCESS". Phones: 574381-82-83.
Telex No. 011-2838.

TEXTILE MACHINERY

NATIONAL MACHINERY MANUFACTURERS LTD.

Kalwa — Thana.

Phones: 593501/02.

Engineers, Founders and Textile Machinery Makers.

TEXTILE MACHINERY

STAR TEXTILE ENGINEERING WORKS LTD.

Manufacturers of :
Textile Machinery & Accessories, Machine Tool Accessories and Engineering goods and water and Air Purification Systems.

Regd. Office : Dhanraj Mahal, Chhatrapati Shivaji Maharaj Marg, Bombay 1.
Phone: 251357.

Works : Manpada-Bhopar, near Dombivli, Thana District.

TEXTILE MACHINERY COMPONENTS

SUESSEN TEXTILE BEARINGS LTD.

Manufacturers of :
Textile Spinning Machinery Components and Bearings, Water Pump Bearings for Automobiles etc.

Regd. Office & Factory :
Bombay-Ahmedabad National Highway No. 8, Baroda 9.
Phone: 3869, Grams: SUESSENTEX Telex: 217.

Head Sales Office :
Dhanraj Mahal, Chhatrapati Shivaji Maharaj Marg, (Apollo Bunder Road), Bombay 1.
Phone: 251715, Grams: SUESSENTEX, Telex: 2654.

TEXTILE MILLS

SHREE SHAKTI MILLS LTD.

Mills at Mahalaxmi.

Regd. Office : Podar Chambers
Sayyad Abdulla Brelvi Road, Bombay 1.

Manufacturers of :
High quality Topstyle Suitings, Shirtings, Ladies Dress Material and Stretch Nylon Georgette Saree etc.

Phone : 269011. Grams : "SHREESAKTI".
Telex : 011-2108.

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Manufacturers of Textile Piecegoods.
Ahmedabad 21.

Managing Directors :
Shri C. N. Munshaw and Shri B. N. Munshaw.

Spindles : 28,828.
Looms : Ordinary 526,
Automatic 48.

Manager : Shri I. S. Devashrayee.
Phones : 32687 & 32688. Grams : "VIVEK".

TEXTILE MILLS

JAIFABS RAYON INDUSTRIES PRIVATE LIMITED

L. B. Shastri Marg, Ghatkopar, Bombay-86.

Manufacturers of :
Polyester Suitings and Shirtings,
Printed Nylon, Georgette, Sattin, Taffeta, etc.
Grams: JAIFABS — Ghatkopar.
Phones : Mills : 582561 & 582561-2, 583129.
Office : 319629.

TEXTILE (COTTON) MILLS

THE RAGHUVANSHI MILLS LTD.

11-12, Haines Road, Bombay 13
Grams: "RAGHUBIR" Phones: 377425-6-7
Spindles 44,000, Art Silk Looms 144.

Manufacturers of :
Cotton Yarn 10s to 120s, Staple Fibre yarn, Blended mixed yarn and Polyester Terene Nylon and other Man-made fibre fabrics, Shirtings—Suitings, Sarees and Dress materials.

Chairman : Shri Surendra Maganlal.
Managing Director : Shri Hareschandra Maganlal.

TEXTILE MILLS

SHREE MADHUSUDAN MILLS LTD.

N. M. Joshi Marg, Bombay-13.
Phones : 372601-4. Grams : "MADHUMILL".
Regd. Office: 31, Chowringhee Road, Calcutta-16.

R. N. Bangur, Chairman; B. G. Bangur, J. K. Somani, M. L. Somani and S. K. Majeji, Directors; (Estd. 1950); Mills Shop at Govind Chowk, M. J. Market, Bombay-2; Phone: 311849; Spindles 85,980; Looms: Ordinary 1,460; Automatic 48; Counts: 30s to 140s, Single or Double yarn Texmark No. 1592; Cloth width from 66 cm to 165 cm; Varieties: Mercerised, Bleached, Dyed, Printed, Sanforised and Wash-N-Wear; Mulls, Lawns, Voiles, Dress materials, Dhoty, Saree, Poplin, Cambric, Shirting, Check Shirting, Long Cloth, Terene-cotton Shirting, Suitings and Polyester Calysynth Sarees ; K. L. Phalnikar, Manager ; D. T. Munim, Asst. Manager ; V. T. Chokshi, Factory Manager ; R. N. Kabra, Mill Secretary ; R. K. Rathi, Sales Manager ; G. T. Bendale, Spg. Supdt. ; G. K. Kapadia, Wvg. Supdt. ; R. H. Khabaria, Processing Supdt. ; M. P. Dandekar, Chief Engineer.

TEXTILE PROCESSING MACHINERY

MATHER GREAVES LTD.

Manufacturers of :

Textile Bleaching, Dyeing, Printing & Finishing Machinery.

*

Udyog Bhavan,
29, Walchand Hirachand Marg,
Ballard Estate,
Bombay-1.
Phone: 269661.

TILES-ROOFING

REGO SONS

41/A, Mazagaon, Bombay 10.

Phone : 372622. Grams : " REGOSONS."

Manufacturers of the famous " Engine " Brand Tiles.

Factories at Bolar, Mangalore.

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Ulwa Road, Panvel, Dist. Kolaba.

Stockists of :

All kinds of Timber, Vellapine, Silver Oak, Teak-wood, Bullies & Bamboos.

Bombay Office : 186/188, Janjikar Street,
Bombay 3.
Tel: 323183.

TIMBER MERCHANTS

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Silver Oak-Bamboos, Teak & Saroo Bullies for Sale

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Address : 100, Victoria Road, Mustafa Bazar,
Bombay 10 (DD).

Phones : 379381 (*Office*) ; 373301 (*Res.*)

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Timber Merchants, Direct Importers & Exporters. Largest Stockists of Vellapine Wood suitable for Shuttering purpose.

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Phones: 379381 (*Office*), 375315 (*Res.*)

Grams: "KAMALKING".

TIMBER MERCHANTS

SHREE SHANKAR VIJAY SAW MILL

Timber Exporters & Merchants

Specialists of :

Dandeli & Balarsha Teak Wood, Haldoo (Bobbin Wood), Rose wood in all Sizes & Round logs.

Ghorapdeo, 108, Reay Road, Bombay 33.

Phones: 376260, (Resi.) 441463.

TIMBER MERCHANTS

MAKLAI TIMBER MART

(Estd. 1932)

79, Ghoghari Mohalla, P.B. No. 3140,
Bombay 3.

Dealers in all sorts of 'Timber' C. P. Teak, Silver, Vellapine, Jungle Wood, Plywood, Veenar, Champa, Hard Board, Cement Sheets, Corrugated, Trafford, Fevicol & Aluminium sections.

Grams : " BURMAHWOOD ". Phone : 332242.

TIMBER MERCHANTS

D. P. CAWASJI & Co.

Connaught Saw Mill Compound, D. P. Wadi,
Ghorupdeo, Bombay 400033.

Phones : Office : 374901
Res. : 215386

Grams : "JUNGLEWOOD"

Timber Merchants and Exporters of Rose wood. Manufacturers of Wooden Packing Cases.

TIMBER MERCHANTS

SHREE SHANKAR VIJAY SAW MILL

Timber Exporters & Merchants, Splt. of Dandeli & Balarsha Teak Wood, Haldoo (Bobbin Wood), Rose Wood in all sizes & Round Logs.

Ghorupdeo, 108, Reay Road,
Bombay 33.

Phones : 376260 ; Res. : 441463.

Grams : " ALLTIMBER ".

TIMBER MERCHANTS & SAW MILLERS

ANAND TIMBER TRADERS

Manufacturers of :

Packing Cases, Crates, Shooks, Pallets & Plants, Printing of Boxes Undertaken, Suppliers of all types of Timber, Pine, Deal, Fir, Chir, Teak, Mango & Jungle wood etc.

170, Reay Road, Bombay 10.

Phones: 379199, 593206 (Thana).

TIN CONTAINERS

ESOOFALLY DAWOODBHOY

Manufacturers & Exporters of :

Tin, Galvanised and other metal Boxes of every Size & Description.

18, Saifee Jubilee St., Bombay 3.

Phone: 332433. Grams: " WELLWORTHY ".

TIN PRINTERS & BOX MFRS.

ORIENTAL CONTAINERS LIMITED

DIVN. : ORIENTAL CAN MANUFACTURING CO.

Tin Printers and Manufacturers of :

Plain & Lithographed Tin Containers, Screw Caps, Closures, R. S. Closures, Pilferproof & Light metal Pressing.

Factory & Office : 1076, Dr. E. Moses Road, Worli, Bombay 18.

Phone: 379546. Manager's Resi. : 369898.

TIN PRINTERS & BOX MFRS.

THE METAL PRINTERS COMPANY

Office : Bhupen Chambers, Dalal Street, Bombay 1-BR.
Grams: "METALPRINT", Phone: Office 254416.

Calcutta : Harington Court, 6, Harington Street.

Factory: 103, Govt. Industrial Estate, Kandivli West, Bombay 67. Phones: 693418 & 692806.

Manufacturers of:

METAL POSTERS, CALENDARS, CASH BOXES, DECORATED CONTAINERS, TRAYS, TOYS, CLOCK DIALS, etc.

TIN PRINTERS & CONTAINERS MFRS.

POYSHA INDUSTRIAL COMPANY LTD.

Manufacturers of :

Open Top Cans for processed foodstuffs, lithographed and plain general line tin containers.

Head Office :
Tiecicon House, Dr. E. Moses Road, Bombay 11-BC.
Grams : " SANCANS ", Phone : 378514 (4 lines).

Factories : Thana, Sewri, Ghaziabad & Cochin.

Subsidiaries : Kaira Can Company Ltd., Colrige Ltd., Industrial Factors Ltd.

TIN PRINTERS & BOX MANUFACTURERS

ZENITH TIN WORKS PVT. LTD.

Manufacturers of Plain & Lithographed Tin Containers, Open Top Sanitary Cans, Collapsible Tubes, Pilfer Proof Caps, Fancy Metal Trays etc.

Keshav Khadye Marg, Bombay 34.
Phone : 370375. Grams : " ZENITHTINS ".
Telex : Zentins 011-2189.
Directors :
M. S. Barodawala, S. S. Barodawala & H. A. Barodawala.
Res. : 126, Cadell Road, Mahim, Bombay 16.
Phones : 452041 & 454692.
Res. : Goorishina, 12, Souter Street, Bombay 8.
Phone : 379631.
Res. : Alaba, Block F 4, Cyrus Avenue, Bombay 8.
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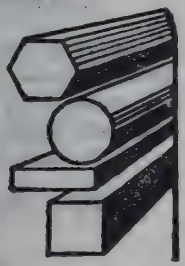

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Wire Ropes, Chains, Pulley Blocks, Water Meters, Pressure gauges & Microscopes.

Sole Selling Agents for :
Maharashtra and Gujrat for GPIF water meters, Pressure gauges, Microscopes etc.

Distributors of : 'Tiger' Brand Earth Augers, 'ORIENT' brand lifting & Traversing jacks.

WATERPROOFING SPECIALISTS

LLOYD INSULATIONS (INDIA)

Waterproofing of roofs, basements, godowns, etc., with "Roofloid", "Indoloid" Felts, "Expansion Joints", and Various Bituminous Products Manufactured by Lloyd Bitumen Products Pvt. Ltd., Calcutta-16.

Free Technical Aid Service rendered by Technical & Development Cell, Bombay.

M-13, Connaught Circus, New Delhi-1.
Phone: 44381 (10 Lines).
386, Veer Savarkar Marg, Bombay-25 DD.
Phones: 454386, 455358.
5, Clive Row, Calcutta-1, Phones: 225672, 228212.
10, Victoria Crescent, Madras-8. Phone: 83754 (2 Lines)

WATER & OIL METERS

KADAKIA TRADING CORPN.

For Cold Water, Hot Water, Petrol, Kerosene, Crude Oil, Vegetable Oil, Turpentine, Sodium Silicate, Glycerine & Diesel Oils etc.

All Size 1/2" to 12" ex-stock LEEDS, AQAMETRO REMCO CAPSTAN, & KAYCEE, Anand Ashahi Indian Spiral 'CAPSTAN' English, PREMA Czecho, Repairing also undertaken with guarantee.

Bibijan Street, Bombay 3.
Phone: 322493.

WATERPROOF PAPER MFRS.

NEPTUNE'S
Waterproof Papers

Manufacturers of :
WATERPROOF PACKING PAPER
• Jute-lined Paper
• Polythene-lined Hessian Paper and Bags • Polythene-lined Kraft Paper • Hessian-lined Paper • Bituminised Hessian • Waxed Paper Etc. Etc. • Roofing Felt.

NEPTUNE WATERPROOF MFG. CO.
OFFICE : 105, Churchgate Chambers, New Marine Line Street,
Bombay 20 BR.
Phones: 297893-294344 Grams: "READYCASH."

WATERPROOF PAPER MFRS.

THE PACKING MATERIALS CORPORATION

K. S. Gadgil Marg (East), Off
Gokhale Road, Bombay 25 DD.

Manufacturers of :

Bituminised Waterproof Papers; Bituminised Paper-lined Hessians and Bags; Bituminised Polythene-lined Hessians and Bags; Bituminised Polythene-lined Paper, Waxed Papers.

To I.S.I., Govt. and Buyer's Specn.

Grams: "SUNLIGHT". Phone: 452824.

WATER PROOF WAXED PAPER, ANTI-CORROSION PAPER

NANJAPA & SONS

Leading "Wax Paper Manufacturers"

Specialists in :

Waxing Cork Sheets, Corrugated Sheets, Boards of all types & Cartons,

Stockists:

'Tixo' Adhesive & Transparent Tapes.

Shree Laxmi Woollen Mills Estate, Shakti Mills Lane,
Mahalaxmi, Bombay 11.
Phone: 376887.

WEIGHING MACHINES

THE AVON SALES CORPORATION

- Platform Weighing Machines
- Cart and Lorry Weighbridges of all types.

Specialists in :

Repair and Maintenance Services.

28-Motiakhan, Jhandewalan Road,
New Delhi-55
Phone: 56-5965.

WEIGHING MACHINES

THE PRECISION MACHINERY CO. (P) LTD.

For Weighbridges upto 100 tonnes Cap. Steelyard, automatic Dial and Ticket & Tapes Printing, Portable platform machines and all type of weighing Equipment. Specialist in Repairs & Maintenance Service.

3428, D. B. Gupta Road, Opp. Shiela Cinema
New Delhi 55.
Phone : 277459.

Branches : Kanpur, Jullundur & Ambala Cantt.

WEIGHING MACHINES & SCALES

FIDAALLI GULAMALI

(Estd.: 1885)
163, Janjikar St., Bombay 3.
Phone: 326133.

Factory:
Wagle Industrial Estate, Road No. 22, Plot No. A-320,
Thana.

Show Room :
41-A, Sarang Street, Bombay 3.

Weighing Machines, Scales and General Merchants.
Stockists of : AVERY & SALTER Weighing Machines.

WEIGHTS, SCALES & MEASURES

A. M. MASTER & CO.

179-81, Janjikar Street, Bombay 3.

Manufacturers of : 'HORSE' & 'AEROPLANE' brand Goldsmith's Scales 'APOLLO' brand Counter Scales.

Agents for : 'ROLEX' Centre Indicator type Counter Scales.

Sole Selling Agents : 'SOEHINLE' Counter Scales.

Dealers in : All Kinds of Scales & Weights, Metric Weights & Measures, 'SALTER' Spring Balances & German Counter Scales & Platform Weighing Machines.

Phone: 326309.

WELDING MACHINERY & MATERIAL

UNIVERSAL WELDING & ENGINEERING CO.

Welding Equipment, Industrial Safety Equipment and Engineering Tools etc.

Nandanavan Industrial Estate, Unit No. AB-4/5,
Plot No. 238 (Opp. A.C.C. Research Station), Wagle,
Bombay-Agra Road, Dist. Thana.

Phone : 592955.

WELDING MATERIALS DEALERS

JINDAL TRADERS

89, Netaji Subhas Road, Calcutta-1.

From a Pin to a Plant, Welding Materials Manufacturers and Stockists of Holders, Hand Screen Gloves, Cables and other Safety equipments.

Phone : 224408. Resi. : 557874.
Grams: "WELDPALACE".

WELDING ACCESSORIES & INDUSTRIAL SAFETY EQUIPMENTS

Electric Welding Equipments : Welding Cable, Lugs, Electrode Holders, Clamps, Black Glasses, Fibre Hand & Head Shields, Cable Connectors, etc.

Gas Welding Equipments : Welding & Cutting Blowpipe, Regulators, Gas Welding Rods & Fluxes, Tinned & Alka 'P', Solder Sticks, Hose Pipe, Clips, Trolleys, Cutting Nozzles, Hose Protectors & Connectors.

Safety Equipments : Fibreglass & PVC Helmets, Gas Mask, Respirators, Face shields & Goggles, Gloves, Aprons, Legguards, etc., made from Leather, Asbestos, Canvas, & Rubber materials Electric shock proof Gloves.

Manufacturers & Suppliers :

FATTEHCHAND & CO.

118, Arun Chambers, Tardeo Road, Bombay 34.

WELDING MATERIAL DEALERS

SHREE SHAMLAJI INDUSTRIES

15, Dadiseth Agiari Lane, Kalbadevi Road,
Bombay 2.

Stockists of :

Welding Electrodes, Gas Welding Rods & Welding Accessories. Specialists in : C. I. Machinable, Stainless Steel & Bronze Electrodes Stellite & Silver Brazing Rods, Holders, Goggles, Hand Gloves & Nozzles, etc.

Phone : 317811.

WELDING MATERIAL

GENERAL ENGG. CORPN.

Samroz Industrial Estate, Ram Mandir Road, Goregaon (West) Bombay 62.

Stockists of :

Welding Transformers, Generator Sets, Rectifiers, Welding Rods, Stainless Steel, Mildsteel, Cast Iron, Suitable fluxes & other welding accessories.

Authorised Distributors for :

ADVANI OERLIKON PVT. LTD.

Phones : 693645 & 694506.

WELDING MATERIAL & EQUIPMENT

"GEM", WELDING EQUIPMENT

INDUSTRIAL MFG. SYNDICATE

22-D, Zaveri Bldg., 12th Khetwadi, Bombay 4.
Phone : 383113.

Manufacturers of :

"GEM" ARC Welding 100/400 Amps.
SPOT Welders 3/15 kva.
BUTT Welders 5/30 kva.

ARGON ARC WELDERS.

WELDING & SAFETY EQUIPMENTS

Welding Cables, Holder, Clamps, Helmets, Hand Shield, Welding & Cutting Sets, Rods, Fluxes, Nozzles, Regulators Respirators, Goggles, Hand Gloves, Aprons Leg guard, Sleeves, Plastic Face Shield, Hood etc. & P. V. C. Welding Torch.

IMPEX ENGG. & EQUIP. CO.

138/140, Narayan Dhuru X Lane,
Bombay 3.

Phone : 326954.

WELDING MACHINES, ACCESSORIES & SPARES

BERCO WELDING & ELECTRICAL EQUIPMENT MFG. CO.

Manufacturing :

ISI Marked BERCO Arc Welding Transformers Spot Welders, Electroplating Rectifiers & Vacuum Impregnating Plants.

Railway Road, Jullundur City.
Phone : 2055.

WELDING & SAFETY EQUIPMENTS

UNIVERSAL AGENCIES

250, Reay Road, Bombay 10.
Phones : 378957, 376674. Grams : "WELDEQUIP".

Branch : 5/7, Sai-Niketan, (1st Floor) 345, Mount Road, Mazagaon, Bombay 10 (DD).
Phone : 373607.

Works : Nandanavan, Co-operative Industrial Estate, Wagle, Bombay-Agra Road, Dist. Thana.
Phone : 592965.

WINE & SPIRIT MERCHANTS

PHIPSON & CO. LTD.

Sangam Bhuvan, Colaba.

Phones : 213115, 213116 Grams : "PHIPSON," Bombay.

Branch Manager : A. J. Pinto.

Head Office : Calcutta.

Branches in India : New Delhi, Madras, Cochin, Visakhapatnam, Bangalore, Cuttack, Lucknow, Hyderabad, Patna, Coimbatore and Mangalore.

WINDING WIRES MFRS.

HINDUSTAN TRANSMISSION PRODUCTS

(*Prop. :* Madhusudan Ltd.)

Manufacturers of : Winding Wires, Cotton & Paper Covered Wires, Paper Covered Copper Strips, Wooden & Plastic Bobbins, Enamelling & Wire-drawing Machines, Copper Salts, Insulating Varnishes, Polyvinyl Formal, Polyester and Melamine Formaldehyde Based Wire Enamels, Polyvinyl Formal, Terephthalic and Thalic Acid Based Polyester Resins, Cresylic Resin, Melamine Formaldehyde etc.

Office : Shree Niketan, F. Block, Shivsagar Estate,
Dr. Annie Besant Road, Bombay 18.
Phone : 378437.

WIRE PRODUCTS MFRS.

MULTIWELD WIRE CO. PRIVATE LTD.

59, Marol-Maroshi Road, Bombay 59.

Manufacturers of: Wire and Wire Products including 'MULTIWELD' Electrically Welded Wire Fabrics. Available in sheets and rolls, suitable for all types of Protection and for Concrete Reinforcement. *Also manufacturers of:* Steel Balls of precision quality with DIN-5401, AFBMA-50 and ISS-2898 Specifications for Ball Bearings Industry.

Phones: 583501-02-03 Telex: 011-2002
Cable: "MULTIWELD", Bombay.

WIRE PRODUCTS MFRS. & DEALERS

EVERGREEN WIRECLOTH FACTORY

Regd. Office :
Bhabha Bldg., 151/155, Princess St., Bombay 400002.

Leading Manufacturers of : Stainless Steel, Ferrous & Non-ferrous wire gauge, Coarse & Fine Mesh, Industrial Screens, Crimfed Wirenet, Itex Wirenetting, Chain-Link Fencing, Airfilter wirenet, Gava Separators (Demister-Mist Eliminator), Welded wire Mesh for reinforcement for wired Glass and other uses and other wire products.

Administrative Office :
3-D, Maker Bhavan No. 2, 18, New Marine Lines, P.B. No. 11100,
Bombay 400020.
Phones : 312461 & 312706.
Grams : "WIREMESH", Bombay-2.
Telex : 011-3244. Code : WIRENET.

WIRE PRODUCTS MFRS. & DEALERS

NATIONAL WIRE HEALD WORKS PRIVATE LTD.

Manufacturers of : All types of Wire Healds and Flat Healds.

Regd. Office : Lakshmi Building, Block 70, 4th Floor, Sir Phirozeshah Mehta Road, Fort, Bombay 1.
Phone : 26-9581 (3 Lines). Grams : "TROPICALS."
Works : 54/56, Hill Side, Tardeo Road, Bombay 34 and Mohili, Andheri-Kurla Road, Bombay 72.

Directors : J. B. Gotla, M. A. Hoosein, B. R. Daver, R. B. Gotla, M. D. Davar & F. B. Gotla.

Sales Dept. : At British Mill Stores Co., Sir Vithaldas Chambers, Bruce Street, Fort, Bombay-1.
Phone : 255235.

WIRE PRODUCTS & PERFORATED METALS

Stockists of : Galvanised Wire Nettings, Wires of all kind, Stitching Wires, Expanded & Perforated Metals, Stainless Steel Wire Nettings, Galvanised Crimped Wire Nettings & Chain Link Fencing, Barbed Wire, Zinc Sheets, Welded Mesh etc. Also Plastic Decorative Laminated & Acrylic Sheets.

Contact:

AA CO SUPERIOR

A. A. MORBIWALA & CO.

109-111, Abdul Rehman St.,
Bombay-3.
Phones : Office : 323280;
Res.: 365508.
Grams : "VARNISH".

WIRE ROPES

BOMBAY WIRE ROPES LTD.

401/405, Jolly Bhavan No. 1, 4th Floor,
New Marine Lines, Bombay 20.
Phone : 317872. Grams : "SUPERROPES".

Manufacturers of : Quality Steel Ropes in Technical Collaboration with KOBE STEEL WORKS LTD., and ASAHI-WIRE ROPE MFG. CO. LTD. (JAPAN), for Mining, Drilling, Aerial Ropeways, Oil Wells, Lifts, Hoists, Elevators, Cranes, Suspension Bridges, Fishing, Dredging, Shipping, Aircraft Control, Automobile Control, and Signalling. Also Flattened Strand Ropes and Wire for various applications.

Factory : Kolshet Road, Thana. Phone : 592679.

WIRE ROPES & WIRES

ELDEE WIRE ROPES PRIVATE LTD.

Manufacturers of quality Steel, Wire Ropes & Standard wire.

LD

Eldee Chambers, 3, Broach Street,
Bombay-9.

Phones : 321067, 321068.

Grams: "ELDEEROPES".

Telex No.: LDROPES 011-2816.

Factory: Maharashtra Industrial Development Corpn., Dombivli, Kalyan

Regd. with D.G.S. & D. Railways and State Governments.

WIRE ROPES MFRS.

MFGRS. OF WIRE ROPES (INDIA) PEW

QUALITY STEEL
WIRE ROPES
AND
STANDARD WIRES

Manufacturers :

PRAKASH ENGINEERING WORKS

Tarun Plastic Compound,
Nagardas Road, Mogra, Andheri (E), Bombay 69.
Phone : 578527.

WOODEN BARRELS & CASKS

COOPER & SONS, DHANJIBHAI NAOROJI

78/80, Kika Street (Gulal Wadi), Bombay 4.

Phones : 333759 (Office) ; 377070 (Resi.).

Pioneer Manufacturers of Wooden Casks, Barrels, Vats, Tubs, Oblong Tubs, Flower Tubs, Ice-cream Tubs, any size or shape (Available in capacity 5 Gallons to 5,000 Gallons). Best for Dyes, Chemicals, Pharmaceuticals, Textile mills, Ayurvedic medicines, Pickles, Juice, Food Stuff, Wine and Toddy.

WOODEN CASES

We manufacture all kinds & sizes of wooden cases and supply packing materials.

For your requirements please contact :

R. K. ENTERPRISES

174, Dr. D. N. Road, Bombay 1.

Phones : 263484, 261227.

WOOLLEN, TEROOL & TERENE SUITINGS

Contact :

HAJI ABDUL REHMAN HAJI SUMAR & CO.

Latest House In Woollen, Terool & Terene piecegoods.

63, Chakla Street, Bombay 3.

Phone : 323011. Grams : "SUMARCO".

X-RAY MACHINES & SURGICAL EQUIPMENTS

ELPRO INTERNATIONAL LTD.

Chinchwad Gaon, Poona 411033.
Phones : 8201, 202, 203.

Manufacturers of : X-Ray and Surgical equipment, Calrod Heating elements, Lightning Arresters, Intensifying and fluoroscopic screens and Magnets (Cast Alnico & Ferrite) for domestic and industrial applications.

Resident Director : J. A. Meher-Homji.

ZIP FASTENERS

MADHU SNAP FASTENERS MFG. CO. PVT. LTD.

Manufacturers of

Snap Fasteners, Zip Fasteners and Component Parts and Bifurcated Rivets.

Sanghavi Chambers, 27, Ghoga Street, Fort,
Bombay 400001.
Phone: 258042. Grams: VIRVANDAN.
Factory : 250D, Udyog Bhavan, Worli, Bombay 400025.
Phone: 454519.

Directors : M. K. Sanghavi, Mrs. S. M. Sanghavi, Dr. Vasant Shah, Dr. P. S. Shah.

ZIP FASTENERS (NYLON) MFRS.

Your requirements of: NYLON Zip Fasteners can be satisfied both in quality and quantity with NYLOC, India's most modern Nylon Zip Fasteners.

Manufactured by

NYLO PLAST INDUSTRIES PVT. LTD.

Nyloc House, 254-D2, Dr. Annie Besant Road,
Prabhadevi, Bombay-25 DD.

Phone: 456231. Grams: "NYLONZIP".

ENGINEERS & CONTRACTORS

ECHJAY INDUSTRIES PRIVATE LTD.

Office & Factory : Kanjur Village Road, Bhandup, Bombay 78.
Phone : 582461-62-63. Grams : "ECHJAY", Bombay
Telex : 011-3495.

Manufacturers of :

Accessories & Equipments for Machine Tools, General Steel Drop & Upset Forgings including Forged Flanges ; Forged Parts of Diesel Engines & Automobiles ; Forged Hand Tools ; Hand Hammers, Chisels & Punches ; Spanners ; Pliers ; Jigs & Fixtures ; Press Tools, Dies & Punches.

	WARANGAL	VISAKHAPATNAM	VIJAYAWADA	VARANASI	UJJAIN	UDAIPUR	TUTICORIN	TRIVANDRUM	THANJAVUR	TIRUPATI	TIRUCHIRAPPALLI	SURAT	SRINAGAR	SIMLA	SHOLAPUR	SHILLONG
AGARTALA	3040	2475	2787	1767	2720	3009	3823	4019	3616	3138	3548	3255	3490	2919	3371	54
AGRA	1350	1713	1480	610	576	637	2419	2494	2306	1873	2241	1105	1088	549	1471	192
AHMEDABAD	1343	1806	1464	1418	456	253	2093	2265	1886	1745	1832	253	1798	1267	898	284
AJMER	1763	1912	1887	972	456	280	2513	2683	2305	2165	2251	786	1265	734	1317	239
ALIGARH	1432	1795	1562	687	658	719	2501	2576	2388	1955	2194	1187	1026	455	1553	200
ALLAHABAD	1225	1406	1255	122	871	1120	2225	2369	2055	1668	1987	1366	1574	1003	1347	134
ALLEPPEY	1266	1458	1167	2291	2172	2408	405	161	494	845	426	1901	3430	2854	1293	362
ALWAR	2079	1927	2201	774	742	549	2829	2999	2621	2481	2567	1055	1042	512	1633	219
AMRAVATI	784	1020	905	869	472	793	1772	1942	1564	1192	1510	905	1946	1415	542	228
AMBALA	1752	1933	1882	1007	978	1039	2821	2896	2708	2275	2514	1507	689	119	1873	225
AMRITSAR	1996	2359	2126	1251	1222	1283	3065	3140	2952	2519	2887	1751	519	371	2117	250
ASANSOL	1596	1053	1343	502	1493	1739	2388	2584	2181	1744	2113	1989	2198	1627	1915	105
AURANGABAD	694	1195	815	1236	458	779	1664	1836	1457	1316	1403	367	2089	1558	306	264
BANGALORE	675	1072	781	1700	1510	1824	607	751	437	254	369	1350	2834	2263	702	303
BAREILLY	1565	1928	1695	530	791	852	2634	2709	2521	2088	2456	1555	1141	570	1727	175
BARODA	1231	1732	1352	1366	397	315	1981	2153	1774	1633	1720	141	1910	1379	785	279
BELGAUM	684	1147	805	1797	1018	1250	1096	1268	889	748	835	762	2649	2118	304	322
BELLARY	498	919	628	1523	1333	1639	913	1099	785	383	717	1205	2657	2086	390	287
BHAGALPUR	1825	1227	1572	478	1469	1720	2499	2771	2368	1805	2300	1966	2174	1630	1947	102
BHAVNAGAR	1525	2026	1646	1624	662	459	2275	2427	2068	1927	2014	435	2004	1473	1079	304
BHOPAL	957	1217	1078	761	188	597	1974	2147	1767	1626	1713	671	1620	1089	850	217
BHUBANESHWAR	1001	453	748	974	1330	2081	1774	1970	1567	1149	1499	1628	2779	2107	1422	150
BIKANER	1880	2257	1999	1201	757	517	2782	2954	2575	2434	2521	950	1493	962	1510	262
BOMBAY	872	1373	993	1594	650	733	1621	1793	1414	1273	1360	296	2282	1751	426	300
CALCUTTA	1414	849	1161	650	1670	2449	2197	2393	1990	1525	1922	2000	2356	1785	1745	108
CALICUT	978	1375	1108	2003	1813	2120	473	398	459	557	447	1653	3180	2566	1005	333
CHANDIGARH	1777	1958	1907	1032	1003	903	2735	2921	2607	2222	2539	1532	845	93	1898	228
COCHIN	1210	1402	1111	2235	2116	2352	349	217	438	789	370	1845	3374	2798	1237	357
COIMBATORE	1018	1415	1124	2043	1853	2160	492	394	289	711	202	1698	3177	2626	1045	319
CUTTACK	1019	471	766	929	1285	2036	1861	2015	1612	1167	1544	1583	2633	2137	1467	150
DARBHANGA	2003	1466	1750	433	1424	1725	2718	2927	2613	2151	2545	1921	2129	1533	1922	93
DARJEELING	1901	1336	1648	595	1548	1837	2684	2880	2477	2049	2409	2083	2291	1750	2232	69
DEHRA DUN	1872	2053	2002	818	1098	1159	2941	3016	2828	2395	2634	1627	832	262	1993	208
DELHI	1550	1913	1680	805	776	749	2619	2694	2506	2073	2441	1305	884	345	1671	216
DURG	857	484	984	930	740	1491	1910	2001	1681	1302	1619	1038	2146	1493	1019	204
GAUHATI	2397	1832	2144	1124	2077	2366	3180	3376	2973	2545	2905	2612	2820	2249	2728	10
GAYA	1545	1258	1655	234	1187	1476	2541	2689	2371	1986	2307	1722	1930	1359	1703	1157
GORAKHPUR	1524	1645	1596	217	1200	1261	2524	2610	2354	1969	2228	1647	1640	1069	1628	1307
GUNTUR	285	323	32	1369	1179	1839	1036	1190	787	369	719	1374	2603	2032	[illegible]	2276
GWALIOR	1313	1494	1343	595	457	748	2231	2375	2061	1676	1993	1015	1210	639	[illegible]	1819
HARDWAR	1699	[illegible]	1829	769	920	986	2657	2843	2529	2144	2461	[illegible]	851	302	1820	1993
HUBLI	[illegible]	1227	936	1831	1167	1374	1021	[illegible]	851	[illegible]	773	896	2755	2184	274	3190
HYDERABAD	141	562	271	1166	976	1536	1141	1285	971	566	903	1071	2300	1729	303	2525
IMPHAL	3038	2473	2785	1765	2718	3007	3821	4038	3614	3186	3546	3253	3506	2853	3369	641
INDORE	1062	1243	1092	951	55	595	2062	2206	1892	1507	1824	487	1697	1126	919	2175
JABALPUR	874	1055	904	433	558	1217	1874	2018	1704	1319	1636	1055	1728	1157	1036	1657
JAIPUR	1662	1843	1710	835	806	407	2649	3061	2747	2327	2471	898	1160	589	1518	2152
JAMNAGAR	1728	2100	1858	1992	701	553	2433	2615	2305	2173	2233	552	2222	1543	1172	3583
JAMSHEDPUR	1975	889	1722	552	1514	1794	2269	2423	2020	1434	1952	1812	2248	1677	1754	1384

Only shortest distances via National Highways and all weather roads between the places are given

Cartographed and Produced by MUDRAN KALA MANDIR, 115-A, Lloyds Road, Madras-6 for THE FEDERATION OF INDIA

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SALEM	SAHARANPUR	RANCHI	RAMPUR	RAMESWARAM	RAJKOT	RAJAHMUNDRY	RAIPUR	PURI	POONA	PONDICHERRY	PATNA	PATIALA	PANAJI	OOTACAMUND	NASIK	NAINITAL	NAGPUR	MYSORE	MUSSORIE	MORADABAD	MIDNAPORE	MEERUT
3603	2757	1754	2363	3853	4038	2647	2551	2022	3397	3391	1497	2821	3795	3788	3188	2454	2457	3704	2619	2389	1690	2638
1948	455	1013	281	2449	1043	1620	1075	1624	1216	2074	876	449	1836	1997	1018	372	815	1878	556	307	1322	266
1700	1134	1826	1107	2092	216	1664	1219	1862	656	1809	1692	1167	1088	1738	608	1223	941	1578	1194	1078	2100	985
2120	601	1380	574	2512	749	2077	1326	1969	1075	2227	1246	634	1507	2156	869	658	1048	1996	661	545	1686	452
2030	210	1095	187	2531	1171	1702	1157	1706	1311	2156	1059	384	1918	2079	1102	331	815	1960	311	186	1416	132
1823	938	530	582	2213	1822	1592	885	1133	1548	1949	392	932	1811	1872	1339	673	608	1753	838	608	746	749
391	2631	2490	2615	435	2371	1522	1878	1945	1440	446	2584	2788	910	331	1649	2706	1601	456	2890	2646	2468	2605
2436	378	1182	351	2828	1018	2122	1341	1984	1391	2543	1047	411	1866	2472	1185	458	1065	2312	437	322	1488	229
1379	1229	1106	1151	1771	1053	1096	433	1076	594	1486	1131	1315	1090	1473	542	1223	155	1313	1289	1180	1321	1080
2350	107	1415	386	2851	1310	2022	1477	2026	1631	2476	1304	47	2238	2399	1422	609	1135	2280	177	360	1786	222
2594	359	1659	630	1395	1689	2266	1721	2170	1875	2720	1548	231	2482	2643	1664	853	1481	2524	403	604	1850	476
2168	1353	257	1098	2418	2295	1203	914	513	2131	1956	355	1556	2341	2353	1922	1189	1191	2278	1354	1124	157	1373
1271	1372	1473	1294	1663	791	1006	800	1165	227	1380	1498	1458	723	1309	216	1365	522	1149	1432	1322	1688	1223
205	2198	2126	2024	595	1776	907	1287	1559	849	303	1993	2192	540	254	1048	2115	1010	135	2299	2050	1877	2009
2163	337	938	66	2664	1258	1835	1290	1839	1444	2289	852	599	2051	2212	1233	157	948	2093	438	92	1154	209
1588	1246	1774	1240	1980	304	1552	1160	1803	544	1697	1640	1279	976	1626	496	1305	882	1466	1306	1211	2043	1097
703	1930	2016	1851	1095	1189	1005	1343	1986	341	812	2071	2018	157	741	551	1924	1065	581	1990	1880	2224	1781
553	1858	2051	1847	943	1634	768	1110	1406	744	702	1793	2050	445	602	953	1938	833	483	2122	1873	1695	1832
2355	1355	465	1074	2605	2277	1264	1356	720	2108	2143	208	1532	2371	2540	1899	1165	1168	2465	1330	1152	337	1349
1882	1340	2032	1313	2274	165	1846	1425	2068	838	1991	1898	1373	1270	1920	790	1429	1147	1760	1400	1284	2306	1191
1581	903	1158	824	1973	806	1268	630	1273	810	1790	1023	989	1308	1676	600	897	352	1516	963	853	1444	754
1554	1879	575	1868	1804	2013	608	553	56	1770	1342	986	2036	1746	1739	1561	1661	830	1664	1826	1894	323	1853
2389	829	1609	823	2781	913	2191	1670	2313	1345	2498	1475	852	1777	2420	1201	921	1392	2267	889	794	1895	680
1228	1564	1831	1485	1620	720	1185	1158	1807	184	1337	1856	1651	616	1266	184	1558	880	1106	1624	1514	2041	1415
1961	1720	445	1249	2227	2412	1035	925	460	2122	1765	563	1715	2169	2206	1933	1340	1202	2087	1821	1275	128	1531
431	2501	2429	2327	503	2083	1210	1590	1862	1152	699	2273	2538	783	159	1361	2418	1313	168	2602	2353	2180	2355
2375	157	1440	411	2765	1362	2045	1437	2014	1656	2501	1329	76	2263	2424	1447	635	1160	2305	203	385	1656	220
335	2575	2434	2564	379	2365	1237	1822	1889	1384	390	2528	2732	854	275	1593	2650	1545	400	2834	2590	2412	2549
158	2561	2469	2367	439	2114	1250	1630	1722	1192	213	2313	255	883	98	1401	2478	1353	242	2662	2413	2040	2372
1599	1834	530	1525	1849	1968	626	508	82	1725	1387	980	1991	1891	1784	1516	1724	785	1709	1889	1659	301	1808
2381	1330	440	1029	2748	2255	1610	1443	939	2083	2359	183	1487	2748	2756	1874	1120	1166	2311	1285	1055	583	2156
2464	1492	574	1191	2714	2414	1508	1412	917	2245	2252	317	1649	2646	2649	2036	1285	1305	2574	1450	1217	585	1466
2470	67	1535	338	2971	1430	2142	1597	2146	1751	2596	1140	248	2358	2519	1542	319	1255	2400	34	312	1442	195
2148	255	1213	195	2649	1243	1820	12 5	1824	1420	2274	1000	246	2036	2197	1222	305	1067	2421	270	167	1514	66
1455	1330	918	1254	1845	1454	744	37	627	1180	1442	1525	1487	1443	1504	971	1345	240	1385	1529	1345	909	1321
2960	2114	1111	1720	3210	3395	2004	1908	1443	2754	2748	854	2178	3142	3145	2545	1811	1814	3070	2017	1746	1111	1995
2143	1135	238	830	2529	1935	1908	1201	847	1868	2265	203	1288	2127	2188	1659	921	928	2073	1086	856	567	1111
2064	1004	660	565	2512	1914	1891	1184	1378	1847	2220	355	1271	2110	2171	1638	656	849	1994	821	591	1014	815
774	1967	1342	1793	1024	1802	172	979	810	848	562	1756	1961	1030	959	1057	1884	679	844	2068	1819	1099	1778
1829	574	1003	400	2417	1213	1680	973	1563	1110	1955	865	568	1817	1878	912	491	696	1759	675	426	1219	385
2297	80	1177	173	2687	1438	2066	1350	1780	1578	2395	1091	261	2039	2346	1369	511	1082	2227	78	172	1405	135
609	1956	2260	1945	1009	1389	1062	1662	1814	435	717	2101	2158	136	668	644	2036	1141	539	2220	1971	2090	1930
739	1664	1595	1490	1129	1499	397	753	1049	545	865	1459	1658	727	788	754	1581	476	669	1765	1516	1365	1475
3601	2755	1752	2361	3851	4036	2645	2549	2020	3395	3407	1513	2819	3811	3786	3186	2452	2455	3647	2617	2387	1618	2636
1660	1061	1603	887	2050	558	1429	722	1312	677	1786	1221	1055	1138	1709	468	1018	445	1593	1162	913	1644	872
1472	1072	841	1021	1862	1180	1241	534	1124	1197	1570	763	1086	1460	1521	1488	1009	257	1402	1193	995	1057	903
2178	685	1243	453	2679	862	2029	1322	1854	1356	2336	1105	679	1847	2564	1105	602	1045	2108	625	537	1552	496
2069	1423	2193	1473	2463	88	1984	1579	2138	1010	2171	2157	1580	1483	2122	762	1549	1302	1999	1552	1438	2417	1397
2007	1612	144	1148	2257	2249	1054	737	468	1954	1795	449	1606	3133	2192	1745	1239	1014	2117	1713	1174	208	1423

CONSTITUTION OF INDIA

THE Constitution of India was passed by the Constituent Assembly on the 26th of November, 1949, and it came into force on the 26th of January, 1950.

The Constitution is the fundamental law or instrument of Government. It defines and deals with the organs of power — the legislature, the executive and the judiciary, and their relations to each other. It also deals with the rights of the subject; contains provisions for amendment and a number of other provisions necessary for its working.

The Constitution is an elaborate document, consisting of 395 Articles (divided into 22 parts) and 9 schedules.

Federation : India, also called Bharat, is a sovereign democratic republic. The Republic, described as a Union, is made up of 21 States and 9 Union territories.

The scheme of the Constitution is that it makes appropriate provisions for the legislative, executive and judicial machinery in the States constituting the Union. Three lists, attached to the seventh schedule contain respectively the topics on which the legislative power of the Union legislature, the State legislatures and both the Union and State legislatures can be exercised.

Division of Subjects : Thus, defence, foreign affairs, transport and communications, currency and coinage, banking, customs and export duties, and the administration of justice at the higher level are all union subjects, while State powers include those over police, public health, education, agriculture, forests and so on.

There is a third group of subjects called Concurrent List containing trade and industry, economic and social planning, social security and insurance, labour welfare, price control, electricity, newspapers and books and vital statistics. On these subjects both the Centre and the State can freely legislate, it being understood that whenever there is conflict between Union and State legislation the Union laws will ordinarily prevail.

If at any time, a subject which does not figure in any of the three lists, comes up for consideration the power of dealing with it lies with the Union Government.

The Union List has 97 entries, the State List 65 and the Concurrent List 47.

Elections : All elections are directed and controlled by an Election Commission. Elections to the Lok Sabha and the Legislative Assemblies of the States are on the basis of adult suffrage. Seats are reserved in the Lok Sabha for the Scheduled Castes and the Scheduled Tribes.

There is a Public Service Commission for the Union and one for each State. The Union Public Service Commission operates for the Union Territories as well.

In the Indian Union the rights of Indian citizenship are given to 1. One who is born in India, 2. Either of whose parents was born in India, and 3. Who has been a resident of India for five years. Provision is also made for persons who are affected by the partition of the sub-continent.

FUNDAMENTAL RIGHTS

Part III is an elaborate and comprehensive declaration of the Fundamental Rights available to a citizen of India. These rights are inviolable, in the sense that no law, ordinance, custom, usage or administrative order can abridge or take away these rights.

Fundamental Rights are classified under seven categories :—

Right to equality (Arts. 14, 15 and 16). Art 14 guarantees equality before the law, or equal protection of the laws within India. This right can be claimed even by a non-citizen residing in India.

Art. 15 : Provides that no discrimination can be made against any citizen on grounds of religion, race, caste, sex, place of birth. Clauses 3 and 4 provide for exceptions to the doctrine of equality, viz, the State can make (*a*) discriminations in favour of women and children, and (*b*) special provisions for backward classes or for Scheduled Castes and Tribes.

Art. 16 provides equality of opportunity for all citizens in matters relating to employment or appointment to any office under the State.

Right to Freedom: (Arts. 19, 20 and 21). *Art.* 19, guarantees seven kinds of freedoms. They are : the right to (*i*) freedom of speech and expression (*ii*) to assemble peaceably (*iii*) to form associations or unions (*iv*) to move freely throughout the country (*v*) to reside and settle in any part of the country (*vi*) to acquire, hold and dispose of any property (*vii*) to practise any profession, or to carry on any occupation, trade or business. These rights are not absolute but can be regulated in the interest of public good under the circumstances enumerated in clauses (2) to (6) of Art. 19.

Art. 20, provides (*a*) that no person shall be prosecuted and punished for the same offence more than once (*b*) that no person accused of any offence shall be compelled to be a witness against himself.

Art. 21 provides that no person shall be deprived of his life or personal liberty except according to procedure established by law.

Art. 22. No person who is arrested is to be detained in custody without being informed of the grounds of such arrest, nor is he to be denied the right to consult, and be defended by, a legal practitioner.

Right Against Exploitation : (Arts. 23 and 24) : Traffic in human beings, forced labour, and employment of children under 14 years in factories are prohibited.

Right to Freedom of Religion: (Arts. 25 and 26) : All citizens are guaranteed the right to free profession, practice and propagation of religion and every religious denomination has freedom to manage its own affairs.

Cultural and Educational Rights: (Arts. 29 and 30): Minorities are given right to establish and administer educational institutions and each minority has the right to preserve and sustain its language, script and culture.

Right to Property: (Art. 31) : No person can be deprived of law. Acquisition of property by the State is permissible only for public purpose and on the payment of compensation which may be fixed by the law in accordance with specified principles. The whole or part of compensation payable may be given otherwise than in cash and the adequacy of such compensation cannot be questioned in a Court of Law.

If the property is acquired for the purpose of giving effect to the directive principles relating to socio-economic rights (Art. 39 (B & C)) such law is not considered void on the ground of being contrary to Articles 14, 19 or Article 31. This right extends to property of any kind, belonging to a citizen or non-citizen and even to companies incorporated outside India, provided they own property situated in India.

This Article has been modified five times by Amendments to the Constitution.

Right to Constitutional Remedies: (Art. 32): For the enforcement of the Fundamental Rights every person has the right to move the Supreme Court by appropriate proceedings.

DIRECTIVE PRINCIPLES

In Part IV certain directive principles of State policy are laid down for the guidance of the legislatures as well as governmental authorities. They relate to (*a*) Principles of social policy, (*b*) Principles of administrative policy (*c*) Socio-economic rights and (*d*) a statement of the international policy of the Republic.

The Directive Principles are not enforceable by any courts.

The Form of Government: The Constitution sets up parliamentary form of government, both in the Centre (Union) and the States. Broadly speaking, each of the States has its own executive, legislative and judicial machinery corresponding to that of the Centre.

UNION EXECUTIVE

The executive head of the Indian Union is the President. He is elected by the elected members of the Houses of Parliament and the Legislative Assemblies of all the States. His term of office is five years, and is eligible for re-election. Only a person who is a citizen of India and has completed the age of thirty-five years is qualified to contest the election.

He is the Supreme Commander of the Armed Forces.

He has the power to grant pardons or remission of punishment.

Salary: The President is entitled to the use of an official residence without payment of rent, and a salary of Rs. 10,000 per month and allowances. Provision has also been made by an Act of Parliament for a pension of Rs. 15,000 per annum. He is also entitled to a maximum of Rs. 12,000 per annum for the sake of secretarial staff and other expenses.

Presidential Powers: The President has the power of summoning, proroguing and dissolving Parliament. At the commencement of each session he addresses both Houses of Parliament assembled together. He has the right of sending messages to Parliament and sending back a Bill presented to him for his assent. This power however can be used by him only once. He has right to veto a Bill passed by Parliament.

Ordinances: The President has legislative powers under certain circumstances. When neither of the Houses of Parliament is in session and the President is satisfied that circumstances exist which make immediate action necessary he may promulgate an ordinance.

Such ordinance must be put before both the Houses of Parliament and will cease to operate at the expiration of six weeks from the reassembly of Parliament.

Appointments: The judges of the Supreme Court and the High Courts, the Attorney-General of India and the Comptroller and Auditor-General of India are all appointed by the President. The heads of States, *i.e.*, Governors are also appointed by the President.

The President has the power of appointing ambassadors abroad and receiving diplomatic representatives of foreign States.

Council of Ministers: All executive action of the Government of India is taken in the name of the President and it is the duty of the Prime Minister to communicate to the President all decisions of the Council of Ministers.

In the exercise of his functions, the President has the aid and advice of a Council of Ministers, with the Prime Minister at the head of it. The President appoints the Prime Minister and other Ministers are appointed on the advice of the Prime Minister.

The Council of Ministers is collectively responsible to the Lok Sabha (the Lower House). Every Minister must be a member of either House of Parliament, and he is required to take an oath of office and secrecy.

The salaries and allowances of Ministers are determined by Parliament.

Emergency: If the President is satisfied that a grave emergency exists, and the security of India or any part thereof is threatened either by war or internal disturbance, he may make a declaration to that effect.

This is a Proclamation of Emergency which must be approved by both the Houses of Parliament before the expiration of two months, otherwise it ceases to operate at the end of that period. While a Proclamation of Emergency is in operation (*a*) the Union will have power to give directions to any States as to the manner in which the States' executive power is to be exercised. (*b*) Parliament will have power to legislate on items included in the State list. (*c*) The Fundamental Rights guaranteed by Art. 19 are virtually suspended. (*d*) As regards other Fundamental Rights, the President may, by a specific order declare that the right to move any court for its (their) enforcement may be suspended during the period of Emergency.

The President of India made a Proclamation of Emergency in October 1962 after the Chinese aggression.

The President may proclaim a failure of constitutional machinery in a State if he learns that the Government of the State cannot be carried on according to the provisions of the Constitution. If this is done, President's rule will be introduced in the State. Upto Dec. 1971, there have been 25 cases of failure of constitutional mechanism in the States.

Financial Emergency: If the President is satisfied that the financial stability of the country is threatened he may, by a Proclamation make a declaration and in consequence the executive authority of the Union is considerably extended and it is empowered to take suitable action.

Impeachment: Provision is made for the impeachment of the President, by Parliament, for violation of the Constitution. If such a resolution is passed by a majority of not less than two-thirds of the total membership, such a resolution has the effect of removing the President from office.

Vice-President: There is a Vice-President of India, who is ex-officio Chairman of the Rajya Sabha (the Upper House). The Vice-President acts as President during a casual vacancy in the office of the President. He is elected by the members of both Houses of Parliament and his term of office is five years.

UNION PARLIAMENT

The Parliament consists of the President and two Houses known as, as already mentioned, the Lok Sabha and the Rajya Sabha. It must meet at least twice a year. The maximum strength of the two Houses is fixed at 250 (12 nominated) for the Rajya Sabha and 525 for the Lok Sabha (not more than 500 from the States and 25 from the Territories).

Elections: The Rajya Sabha is elected by the elected members of the Legislative Assemblies of the States and of the Union Territories. While the Lok Sabha is elected directly by the voters in the country.

The elections to the Lok Sabha are based on adult suffrage and joint electorates. There is no reservation of seats for any group except Scheduled Castes and Scheduled Tribes.

The Rajya Sabha is a permanent body with one-third of its members retiring every second year. The Rajya Sabha has a Chairman and Deputy Chairman.

Ordinarily the Lok Sabha has a duration of five years. There is a Speaker and a Deputy Speaker of the House both of whom are elected by its members.

All these posts carry salary and allowances.

Immunity for M.P.s : Members of Parliament are assured of freedom of speech in Parliament subject to the provisions of the Constitution. They enjoy immunity from proceedings in any court in respect of anything said or a vote given by him in Parliament.

Under certain circumstances, the members can be disqualified and their seats declared vacant.

Legislation: All legislation requires the consent of both Houses of Parliament, and every question is decided by a simple majority of those present and voting except on amendments to the Constitution.

Money Bills can be introduced only in the Lok Sabha. The Rajya Sabha can only return a bill with its recommendations to the Lok Sabha within a period of fourteen days of its receipt. Bills passed by Parliament are submitted to the President for his assent. Only on such assent being given does the Bill become law.

Procedure: A Bill normally goes through the following stages. It is first published. After introduction there is a general debate. Then, there is a clause-by-clause discussion and voted upon. A specially important measure may go before a select committee or a joint select committee. A Money Bill has a slightly different passage. After it has been passed in the Lok Sabha it is sent to the Rajya Sabha which has to return it within fourteen days with its recommendations which may be accepted or rejected.

Quorum: The quorum is fixed at one-tenth of the membership of the House.

The language used in Parliament is either Hindi or English.

Distribution of Seats : (Please see index for chapter on Rajya Sabha and Lok Sabha Members).

Committees: Parliament's control over the administration is also exercised through a series of committees.

The committees can summon witness or require documents to be produced. There is a **Committee on Privileges** which sees to breaches of Parliamentary privilege, a **Business Advisory Committee** which helps the **Ministry of Parliamentary Affairs** in drawing up the programme for a session.

Two very important Committees are the **Public Accounts Committee** and the **Estimates Committee.** They are elected by the House of the People and Ministers are barred from membership. The Public Accounts Committee ensures that money is spent for the purpose for which Parliament has voted it, and criticises cases of waste, or extravagance. The Estimates Committee examines possibilities of economy and reform in financial administration and the manner in which estimates may be presented to Parliament.

Comptroller and Auditor-General is appointed by the President to control on behalf of the Union and the States all disbursements and to audit all accounts of moneys administered by the Parliament and the State legislatures.

STATE GOVERNMENT

The 21 States have Governors at their heads, the Union Territories of Andaman & Nicobar Islands and Chandigarh have Chief Commissioners, Delhi, Goa, Mizoram and Pondicherry have Lieutenant-Governors, Laccadive, Minicoy & Amindivi Islands and Dadra & Nagar Haveli have Administrators.

Appointment of Governor: The Governor of a State is appointed by the President. Executive power is vested in the Governor who is appointed for a term of five years, ordinarily. Only a citizen of India and one who has completed 35 years of age, is eligible for such an appointment.

The Governor, like the President, has the power to grant pardon, etc. The Governor also appoints an Advocate-General for the State.

The *de facto* executive is the Council of Ministers, with the **Chief Minister** as its head to aid and advise the Governor. The Chief Minister is appointed by the Governor and other Ministers are appointed by the Governor on the advice of the Chief Minister.

Types of Legislatures: Seven States, Andhra Pradesh, Bihar, Jammu & Kashmir, Maharashtra, Mysore, Tamil Nadu, Uttar Pradesh have two Houses of Legislature; the others, only one. The two Houses are called the Legislative Assembly (sometimes Vidhan Sabha) and the Legislative Council (sometimes Vidhan Parishad). The former has a duration of five years, while the latter is a permanent body with one-third of the members retiring every second year.

Membership Strength: The minimum strength of an Assembly is 60 and the maximum 500. The minimum strength of a Council is 40, and the maximum one-third of the State Assembly.

Elections: An Assembly is elected directly on the basis of adult franchise with reservation of seats for the Scheduled Castes and Tribes. The composition of a Council is more complicated. About a third are elected by the Assembly, another third by local authorities (municipalities, district boards), about a twelfth by registered teachers in schools not lower than the secondary school standard, and about a twelfth by registered graduates of not less than three years' standing. And the rest are nominated by the Governor from among persons who have distinguished themselves in art, science, literature, co-operation and social service.

The Legislature must meet at least twice a year.

Rules of Procedure : The legislature can frame its own rules of procedure but it is more or less the same as in Parliament. The quorum for a meeting is one-tenth of the membership or ten whichever is higher.

In case of disagreement, if the Bill is passed a second time after three months of its reference to the Council it automatically becomes law after one month of its passage in the Lower House.

The State legislature too has its Committees like Parliament.

Kashmir Assembly: 25 seats are now vacant waiting to be filled in by members from that part of Kashmir now under Pakistani occupation. The effective strength of the Assembly is 75.

Zonal Councils: Have been established by the States Reorganisation Act of 1956 to advise on matters of common interest to each of the five zones into which territory of India has been divided. Northern zone (Punjab, Haryana, Rajasthan, Kashmir, Delhi and Himachal Pradesh); Central zone (Uttar Pradesh and Madhya Pradesh); Eastern zone (Bihar, West Bengal, Orissa, Assam, Manipur and Tripura); Western zone (Gujarat, Maharashtra and Mysore); Southern zone (Andhra Pradesh, Tamil Nadu, and Kerala and also Mysore as a permanent invitee).

Official Language: Article 343 of the Constitution provides that the official language of India shall be Hindi in the Devnagri script and the form of numerals for official purposes shall be the international form of Indian numerals. English, which was originally to continue as the official language upto January 26, 1965, will, under the Official Languages Act, 1963, continue to be used even after that in addition to Hindi.

Recognition to former Indian Rulers: The Constitution gave recognition (Art. 362) to the personal rights, privileges and dignities enjoyed by the former rulers of the Indian States under agreements and covenants entered into by them with the former Government of India. In December 1971 by the 26th Amendment Parliament abolished (363A) the recognition given to the rights, etc. as well as privy purses and the recognition granted to the rights and privileges granted to the former Rulers of the Indian States.

Amendment of the Constitution: For purposes of amendment the items are divided into three classes with a different procedure for each class.

For amendment of the provision with respect to the Supreme Court and the High Courts, the distribution of legislative powers between the Centre and the States, the representation of the States in Parliament, etc., the amendment must be passed by both the Houses of Parliament by a majority of the total membership of the House and by a majority of two-thirds of the members present and voting, and must further be ratified by the legislatures of not less than one-half of the States.

In other cases no reference to the State legislatures is necessary. Parliament by itself can amend the Constitution in the manner mentioned above. In some cases amendment can be effected even by a bare majority such as is required for the passing of any ordinary law. The Supreme Court in Golaknath case (Feb. 1967) laid down that Parliament has no power to curtail fundamental rights.

Parliament has amended the Constitution when it found that judicial decisions either inadequately, or in its opinion, erroneously interpreted the intention behind the relevant Constitutional provisions or they pointed out certain lacunae in them.

There were 28 amendments to the Constitution upto the end of August 1972. Some of the important Articles modified by Amendments: Arts. 15, 19, 31, 31A, 66, 71.

ADMINISTRATION OF JUSTICE

THOUGH the Constitution of India is of a federal type, there are no double chain of courts (as in the U.S.A.), one to administer the Union laws, and the other to administer the State laws. All the courts of the country constitute a single hierarchy with the Supreme Court at its head. All the courts, subject to their respective territorial and pecuniary jurisdictions, administer the whole law of the country enacted by the Parliament or the State legislatures.

SUPREME COURT

The Supreme Court of India consists of a Chief Justice and not more than 13 judges appointed by the President.

Retirement: At the age of 65.

Qualifications: For appointment as a judge of the Supreme Court a person has to be a citizen of India and must have been for at least 5 years a judge of a High Court or of two or more such courts in succession; or an advocate of a High Court or two or more such courts in succession for at least 10 years; or, he must be in the opinion of the President an eminent jurist.

Removal: A judge of the Supreme Court cannot be removed from office except by an order of the President passed after an address by each House of Parliament, supported by a majority of the total membership of that House voting, has been presented to the President in the same session for such removal on the ground of proved misbehaviour or incapacity.

Present Strength of the Supreme Court is a Chief Justice and 11 Judges.

Jurisdiction: The Supreme Court has both original and appellate jurisdiction. Its exclusive original jurisdiction extends to all disputes between the Union and one or more States or between two or more States *inter se*. In addition to this, Article 32 of the Constitution gives an extensive original jurisdiction to the Supreme Court to enforce fundamental rights guaranteed under Part III of the Constitution.

Appellate Jurisdiction: The Supreme Court can be invoked by a certificate of the High Court concerned or by special leave granted by the Supreme Court, in respect of any judgement, decree or final order of the High Court in cases involving substantial questions of law as to the interpretation of the Constitution.

Civil Appeals: Also lie to the Supreme Court where the amount or value of the subject matter of the dispute is not less than Rs. 20,000 or where the judgement, decree or final order involves claims respecting property of like amount, or where the High Court concerned certifies that the case is a fit one for appeal to the Supreme Court.

Criminal Cases: The right to appeal to the Supreme Court has been provided for "if the High Court (*a*) has on appeal reversed an order of acquittal of an accused person and sentenced him to death; (*b*) has withdrawn for trial before itself any case from any court subordinate to its authority and has in such trial convicted the accused person and sentenced him to death; or (*c*) certifies that the case is a fit one for appeal to the Supreme Court." Parliament is authorised to confer on the Supreme Court any further powers to hear and entertain appeals from any judgement, final order or sentence in a criminal proceeding of a High Court in Indian territory.

HIGH COURT

Every state has a High Court of its own except in the case of Assam and Nagaland and Punjab and Haryana who share one each between them. Delhi has a High Court of its own.

Appointment: High Court judges are appointed by the President after consulting the Chief Justice of India, the Governor of the State and the Chief Justice of the High Court. They retire at the age of 62.

Qualifications: To be appointed a person has to be a citizen of the country who has either held judicial office or practiced as an advocate for 10 years in any State.

Removal: Article 124 (4) which lays down the procedure for the removal of a Supreme Court judge apply to the High Court judges also.

Jurisdiction: The jurisdiction as well as the laws administered by a High Court can be altered both by the Union and State Legislatures. Certain High Courts, like those at Bombay, Calcutta and Madras, have Original and Appellate jurisdictions. Under the Original jurisdiction suits, where the subject matter is valued at Rs. 25,000 or over can be filed directly in the High Court. Under the Appellate jurisdiction only appeals from lower courts and Appeals from suits filed on the Original side of the High Court can be entertained. Most High Courts have only Appellate jurisdiction.

High courts are empowered to issue writs for the enforcement of Fundamental Rights.

Some of the High Courts have jurisdiction to try insolvency, testamentary and matrimonial matters.

The High Courts have powers of superintendence over all subordinate Courts and tribunals within their respective jurisdiction.

Legislation affecting constitution and organisation of the High Courts can be passed by Parliament alone.

No. of cases: On an average more than 14,000 cases are filed in the High Courts of India every month.

The Central Government has made separate judicial arrangements in the Union Territories, Goa, Daman and Diu, Andaman and Nicobar Islands and Laccadive, Minicoy and Amindivi Islands.

Under Article 241 of the Constitution, Parliament can by law constitute a High Court for a Union Territory or declare any court in any such territory to be a High Court for all or any purposes of the Constitution. Judicial Commissioner's Court in Goa, Daman and Diu is declared a High Court for certain purposes.

LOWER COURTS

In most of the States the judiciary is completely separated from the executive.

The system and number of courts is not identical in all the States, but the general pattern is the same:

I *Criminal Administration*

High Court.
Courts of Sessions.
Magistrate's Courts.
Subordinate or Judicial Magistrates.
Nyaya Panchayat (in some States).

II *Civil Administration*

High Court.
District Court.
Civil Judge (Senior Division).
,, (Junior Division).
Nyaya Panchayat (in some States).

Nyaya Panchayat: A tribunal established in a number of States, for administration of civil and criminal justice in a group of villages. The Gram-panchayat (village council) of each village elects one member to the Nyaya Panchayat. In its civil jurisdiction it tries certain claims not exceeding Rs. 100 e.g. (*a*) suits for recovery of money due on contracts. (*b*) Suits for compensation for injury to moveable property. In its criminal jurisdiction it tries certain petty offences such as petty thefts, house trespass, misconduct in public by a drunken person etc. There is no appeal against its decision, but the propriety and legality of the order can be questioned by the District Court.

Magistrates' Courts: Are of three classes with descending powers. Provision is made and largely utilised in the towns, for the appointment of honorary magistrates. In the towns of Madras, Bombay and Calcutta, Presidency Magistrates deal with magisterial cases and benches of Justices of the Peace or Honorary Magistrates dispose of the less important cases.

Every State, outside the towns of Madras, Bombay and Calcutta, is divided into sessions divisions consisting of one or more districts, and every sessions division has a court of session and a sessions judge, with assistants if need be. These stationary sessions courts are competent to try all accused persons duly committed, and to inflict any punishment authorised by law, but sentences of death are subject to confirmation by the highest court of criminal appeal in the State.

District Courts: Have Original and Appellate jurisdictions. District Judges are appointed by the Governor of the State in consultation with the High Court of the State. Appointments of persons other than the District Judges are made by the Governor after consultation with the State Public Service Commission and with the High Court. The limits of original jurisdiction of courts subordinate to the District Courts are fixed — but differ from State to State, e.g. in Maharashtra Subordinate Judge may try original suits where subject-matter does not exceed Rs. 15,000. The Subordinate Judge may also try appeals from lower courts. Salaries of Judges of District and Lower courts vary from State to State.

Small Causes: There are in addition a number of Courts of Small Causes, with jurisdiction to try money suits up to Rs. 500. In the towns of Madras, Bombay and Calcutta where the High Courts have original jurisdiction, Small Causes Courts dispose of money suits up to Rs. 3,000.

In Bombay and Madras there are also City Civil Courts. The City Civil Court in Bombay has a pecuniary jurisdiction of upto Rs. 25,000.

Insolvency Courts: As Insolvency Courts the High Courts of Calcutta, Bombay and Madras have jurisdiction in the Presidency towns. In the mofussil similar powers are conferred on the District Courts by the Provincial Insolvency Act of 1920.

Special Courts: Labour Courts and Industrial Courts now exist in most States.

A Labour Court consists of a single judge.

These Courts decide upon disputes regarding (*a*) propriety or legality of an order passed by an employer, (*b*) the application and interpretation of standing orders, (*c*) they also decide disputes referred to them by Government for arbitration. Legality or otherwise of strikes or lock-outs or closure, etc. is also decided by them.

An appeal against the Judgement of the Labour Courts lies to the Industrial Court. This court has also original jurisdiction regarding matters referred to it by the Government or by representative Unions. It decides upon questions of law referred to it by Wage Boards and references regarding interpretation of the Act and the Rules. It has power of superintendence over Labour Courts.

The Industrial Disputes Act: Was passed by the Central Legislature in 1947 for the investigation and settlement of industrial disputes.

Industrial Tribunals were established under this Act. If the conciliation bodies set up under this Act fail to bring about a settlement, the matter is referred to the Industrial Tribunals.

Neither party to a dispute is entitled to be represented by a legal practitioner except with the consent of the other party and by leave of Tribunal.

Industrial Tribunals are not permanent courts. Whenever a matter is referred to the Government regarding an industrial dispute the Government appoints one or more persons as Industrial Tribunal to adjudicate upon the dispute.

Administration of Labour Laws: Is a divided responsibility. The Central Government has the following organisations for the administration of labour laws. (1) The Office of the Chief Labour Commissioner, New Delhi. (2) The Office of the Coal Mines Welfare Commissioner, Dhanbad. (3) The Office of the Coal Mines Provident Fund Commissioner, Dhanbad. (4) The Office of the Welfare Commissioner, Mica Mines Labour Welfare Fund, Dhanbad and Nellore. (5) The Office of the Chief Inspector of Mines, Dhanbad. (6) The Office of the Chief Adviser of Factories, New Delhi. (7) The Office of the Director-General, Employees' State Insurance Corporation, New Delhi. (8) The Office of the Controller of Emigrant Labour, Shillong. (9) The Office of the Director, Labour Bureau, Simla. (10) The Office of the Central Provident Fund Commissioner, New Delhi.

Sheriffs: Are attached to the High Courts of Bombay, Calcutta and Madras.

There are Official Assignees in three States — Maharashtra, W. Bengal and Tamil Nadu. The appointment is made by the Chief Justice of the High Court concerned.

In addition to the Official Assignee, a Deputy Official Assignee may also be appointed. Another officer of the court is the Insolvency Registrar who may be vested with the powers mentioned in section 6 of the Presidency Towns Insolvency Act.

Social Reforms Acts: Parliament has passed two important Acts relating to social reform. The Suppression of Immoral Traffic in Women and Girls' Act (No. 104 of 1956) was passed in December 1956. This Act provides, in pursuance of the International Convention signed at New York on 9th May 1950, for the suppression of immoral traffic in women and girls. The Women's and Children's Institutions Licensing Act (No. 105 of 1956) was passed in December 1956. This Act provides for the licensing of such institutions and of matters relating to them.

Yet another Act in social reform is the Probation of Offenders Act (20 of 1958).

Dowry Prohibition Act was passed in 1961.

Public Provident Fund Act was passed in 1968.

PHYSIOGRAPHY

THE vast size of India needs no stressing. Reaching from 8° 4′ to 37° 6′ North latitude, and from 68° 7′ to 97° 25′ East longitude, it measures some 3,220 km. from south to north and some 2,980 km. from west to east, and covers an area of 3,276,141 sq. km. (including Sikkim).

Physical Features

India is built on a grand scale. Its physical features fall into three well-marked regions, each of them vast in dimensions: first, the great Himalayan mountain system; secondly, the Indo-Gangetic plain; and thirdly the plateaux of peninsular India, the Deccan.

The Himalayan system lies between the plateau of Tibet and the Indo-Gangetic Plain, and consists essentially of a complex series of young fold-mountains arranged in more or less parallel ranges which now combine in a mountain-knot, then divide to leave room for intermont valleys like those of Kashmir and Kulu. The highest range, the Great Himalaya, consists of a whole series of giant peaks like Nanda Devi (24,645 feet), separated by deep chasms cut by rivers and glaciers and, occasionally, by high passes over which run the immemorial trade-routes between India and Tibet. South of the Great Himalaya lie other high ranges, and nearest to the plains there are the Sivaliks, the youngest member of the series geologically, which present a massive rampart to the south, broken only by valleys through which run great snow-fed rivers like the Sutlej (a tributary of the Indus), the Yamuna and Kosi (tributaries of the Ganga) and the Ganga itself. At the eastern-most end of the Indian Himalaya the ranges are breached in a spectacular gorge by the Brahmaputra, which rises in Tibet. East and south of the Brahmaputra gorge, the fold-ranges trend generally southward, and form the wild hilly country of Nagaland and other areas on the frontiers of India and Burma.

The Indo-Gangetic Plain occupies what must once have been a hollow between the Himalayas and the old-rock plateaux of the peninsula; a hollow that has been infilled by alluvium brought down by the great Himalayan rivers and, to a lesser extent, by those flowing into it from the Deccan, like the Chambal and Sone. If one includes the level ground along the Brahmaputra in Assam, the Plain as a whole is over 2,400 km. long, and generally 200-300 km. wide (rather narrow in Assam). Here is one of the world's really large Plains. To the casual observer it is one great monotony, but actually it has considerable variety, of two kinds: first, the gradual transition from the dune-covered desert-plain of Rajasthan, through the rich, cultivated alluvium of Uttar Pradesh to the swampy Sundarbans along the seaward edge of the Bengal delta; and, secondly, more intimate local variety — for example, the contrast of deeply-gullied terraces of old alluvium and of low-lying flood-plain where the Chambal runs into the Yamuna below Agra.

The dominant landform in the Deccan (that is, in peninsular India) is the plateau, the great stretch of rolling country at some considerable elevation above sea-level. Such is the Maidan of Mysore or the black-earth plateau of Malwa (or the detached plateau which forms Meghalaya). Most of these plateaux, indeed, almost all of the Deccan, are built of hard old crystalline rock, with here and there ancient sediments. Here lies most of India's mineral wealth, especially iron and manganese ore (with coal in down-faulted basins in the North-east Deccan). In Maharashtra there was a great outpouring of basalt which overlies the crystalline base and gives rise to characteristic stepped landforms. Across the plateaux roll the great east-flowing Deccan rivers, the Mahanadi, Godavari, Krishna and Kaveri, with their tributaries. Each forms a notable delta where it reaches the sea. The Narmada and Tapti, on the other hand, flow westward to the Gulf of Cambay north of Bombay. The great plateaux end in massive mural scarps like those overlooking the Indo-Gangetic Plains or the even more impressive Western Ghats (the so-called Eastern Ghats are puny, broken things in comparison). There are also scarps with the appearance of mountain ranges where one plateau-level descends to another within the Deccan.

Climate

The vastness of India and the variety of its relief are reflected in the wide range of climatic types to be found within it. In the Plains, the desert of Rajasthan contrasts with the humidity of Bengal. The winter snows of the Himalaya contrast with the nearly equatorial heat of Kerala and Tamil Nadu. The last two contrasts with each other, for Kerala is wet, with a short dry season, and Tamil Nadu is dry, with a long dry season when much of India is having rain, during the south-west monsoon.

If one seeks a unifying factor in the climate of India, it is to be found in the dominance of the monsoon : that is, in a great seasonal reversal of wind and weather. For most of India except Tamil Nadu, the south-west monsoon of about June to September is a period of rain, very heavy in Bombay and Calcutta, torrentially heavy in Meghalaya (where Cherrapunji has the reputation of being the earth's wettest spot), light by the time Delhi is reached, even lighter (and highly variable) in the desert. The north-east monsoon of 'winter' is a period of dry weather over most of India except Tamil Nadu, which then has its rainy season ; and of cold weather, becoming hot as the south-west monsoon season approaches, in north India.

Vegetation and Soils: Natural and Cultivated

Most of India must once, it is thought, have been covered with forest whose nature reflected principally variations in rainfall (or of altitude in the Himalaya): forest that ranged from tropical rain forest in Kerala through tropical moist deciduous forest in the eastern Plains and north-east Deccan to thorn scrub in semiarid interior Maharashtra. Forest reserves to some extent preserve this pristine vegetation, though usually in a form modified by man, acting as a destructive agent (for instance, turning thorn forest to poor savana-jungle) or as a constructive agent (replacing 'natural' vegetation with pure stands of desired species like sal or sandal-wood). In the Plains, the east coast deltas and western coastal strips, in Tamil Nadu and much of Maharashtra, little 'natural' vegetation of any sort survives.

Human activity over the centuries (indeed, for millennia) has replaced 'natural' vegetation with crops : the kharif rice and rabi wheat of much of the Plains (and, of course, other crops beside, like sugar-cane and mustard) ; the jowar and bajra of the drier parts of the Deccan, except where irrigation has brought in wheat, or rice, or sugar-cane ; the tea of Assam ; the tea and coffee of Kerala and of the hills north of it ; the coconut of the coastal fringes of the South. So, too, the teeming wild life of India, dependent as it is on forest cover, has been fighting a losing battle against man. There is now concern over the survival of a number of species, notably the lion (confined to the Gir forest in Saurashtra), the tiger, the elephant and the rhinoceros. But a number of species of deer are still relatively common, and bird life is generally abundant.

Population

India is the world's second most populous country. The 1971 Census indicate the total population was 547,949,809, an increase of 24·57 per cent since the 1961 Census. It is not surprising that, although there are great variations between one region and another, pressure of population on the land has become excessive, especially in the Plains, the east coast deltas and Tamil Nadu.

STATES, TERRITORIES

The country is divided into 21 States and 9 Union Territories.

The 21 States (with the capital towns in brackets) are :

Andhra Pradesh (Hyderabad), Assam (Shillong), Bihar (Patna), Gujarat (Gandhinagar), Haryana (Chandigarh‡), Himachal Pradesh (Simla), Jammu and Kashmir (Srinagar), Kerala (Trivandrum), Madhya Pradesh (Bhopal), Maharashtra (Bombay), Manipur (Imphal), Meghalaya (Shillong), Mysore (Bangalore), Nagaland (Kohima), Orissa (Bhubaneshwar), Punjab (Chandigarh‡), Rajasthan (Jaipur), Tamil Nadu (Madras), Tripura (Agartala), Uttar Pradesh (Lucknow), West Bengal (Calcutta).

The 9 Territories (with capital towns in brackets) are :

The Andaman and Nicobar Islands (Port Blair), Arunachal Pradesh (former NEFA) (Yachuli), Chandigarh‡ (Chandigarh), Dadra and Nagar Haveli (Silvasa), Delhi (Delhi), Goa, Diu and Daman (Panaji), Laccadive, Minicoy and Amindivi Islands (temporary headquarters at Kozhikode, Kerala), Mizoram (Aizawl), Pondicherry (Pondicherry).

SOME BASIC FACTS

Date of Independence 15-8-1947. Became a Republic on 26 -1-1950.

Area : 3,276,141 Sq. km.

Length : 3,119 km (North-South).

Breadth : 2,977 km (East-West).

Land Frontier : 15,168 km ; Frontiers with W. Pakistan : 2,966 kms. ; with Bangla Desh : 3,950 kms. ; with China 3,862 kms. ; with Nepal : 4,390 kms.

Coastline : 5,689 km.

Important Rivers : Ganges, Yamuna, Luni, Ghaghara, Kosi, Godavari, Chambal, Betwa, Sone, Brahmaputra, Krishna, Mahanadi, Narmada, Kaveri, Tapti and Pennar.

Minimum Rainfall : Thar Desert 101·60 mm (4 inches).

Maximum Rainfall : Cherrapunji 10,795 mm (425 inches).

Minimum Temperature : Kashmir 9·4°C (49°F).

Maximum Temperature : Rajasthan 48·9°C (120°F).

Population : 547,949,809 (1971).

Growth Rate : 24·57 per cent (1971).

Expectancy of Life at Birth : 52·6 years (M. 53·2 years; F. 51·9 years).

Death Rate : 14 per 1,000.

Infant Mortality Rate : Male 120, Female 113.

Most Populated State : Uttar Pradesh 88,341,144.

Largest Populated City: Greater Calcutta 7,005,262.

Literacy Rate : 33 per cent.

Most Literate State : Kerala (46·8 per cent).

Largest State : Madhya Pradesh 443,462 sq. km. (171,221 sq. miles).

No. of States : 21.

No. of Districts : 358.

No. of Villages : 550,000 (approximately).

Languages : 15 (provided by the Constitution). Assamese, Bengali, Gujarati, Hindi, Kannad, Kashmiri, Malayalam, Marathi, Oriya, Punjabi, Sanskrit, Sindhi, Tamil, Telugu, Urdu.

Dialects Spoken : 720.

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‡ The Union Government announced on January 29, 1970 its decision to transfer the capital project area of Chandigarh to Punjab within the next five years. Pending the construction of a new capital for Haryana, Chandigarh will remain a Union Territory.

A TOURIST'S GUIDE

INDIA has three major seasons: winter, summer and the monsoon.

The winter months (November-February) are pleasant throughout India with bright sunny days. In the northern plains, the minimum temperature at times drops steeply and there is snowfall in the hills. In Maharashtra and the south and in eastern India, however, December and January are pleasantly cool, never really cold.

The summer months (April–June) are hot in most parts of India, and it is during this season that hill resorts such as Simla, Mussoorie, Naini Tal, Kulu and Kashmir Valleys, Darjeeling, Shillong, Ootacamund, Kodaikanal, Pachmarhi and Mount Abu provide cool retreats.

The south-west monsoon usually breaks about the beginning of June on the west coast and reaches elsewhere later. With the exception of the south-eastern areas, India receives the major share of its rainfall between June and September. The south-eastern areas receive most of the rainfall from the north-east monsoon between November and January.

Clothing: In northern India, where evening and night temperatures drop steeply in winter, woollen clothing will be necessary from the middle of November to the middle of February. Winter in other parts of the country is mild and tropical clothing should be sufficient. For those visiting the hill resorts during this time heavy woollens will be essential.

During the summer months, only light tropical and cotton clothing will be comfortable. Visitors to the hill resorts, however, should carry light woollens.

Medical Facilities: In all the cities and towns there are State-managed and private hospitals and dispensaries. The services of highly qualified specialists and consultants are available in places like Delhi, Bombay, Calcutta, Madras and other large cities. Some of the chemists offer round-the-clock service.

Foreign Exchange: Under the revised rules of the Government of India all foreigners, including those of Indian origin, are required to pay their hotel bills in foreign currency. For details please enquire at nearest Indian Government office.

The official rates of exchange are as follows: £1 equal to Rs. 18·08; U.S. $1 equal to Rs. 7·50. The actual buying and selling rates, however, differ slightly from these rates.

Time: The Indian Standard Time (IST) is 5½ hours ahead of Greenwich Mean Time (GMT) and Central European Time, and 11½ hours ahead of the United States Time.

Electric Current: Voltage in most places is 220–240 A.C., 50 cycles, though a few areas have D.C. supply as well. The tourists are advised to check the voltage before using an electric shaver or other electrical gadgets.

TOURIST INFORMATION

Tourist Offices functioning in India and overseas under the department of Tourism, Ministry of Tourism and Civil Aviation, as well as State Government Tourist Bureaux, which have been opened at major tourist centres, provide travel information and literature to all visitors.

The main tourist offices in India are: (1) Govt. of India Tourist Office, 88, Janpath, New Delhi-110001; (2) Govt. of India Tourist Office, 123, M. Karve Road, Churchgate, Bombay-400020; (3) Govt. of India Tourist Office, 13, Old Court House St., Calcutta-700001; (4) Govt. of India Tourist Office, 35, Mount Road, Madras-600002.

Overseas Tourist Offices: (1) Govt. of India Tourist Office, 19, East 49th St., New York, N. Y. 10017 (U.S.A.), (Tel. Mu8-2245); (2) Govt. of India Tourist Office, 685, Market St., San Francisco, Calif. 94105 (U.S.A.) (Tel. 397-0066); (3) Govt. of India Tourist Office, 201, North Michigan Ave., Chicago, Ill. 60601 (U.S.A.) (Tel. 236-6899 & 236-7870); (4) Govt. of India Tourist Office, Suite 1016, Royal Trust Tower, P. O. Box 342, Toronto-Dominion Centre, Toronto, (Canada) (Tel. 362-3188); (5) Govt. of India Tourist Office, 21, New Bond St., London W.I. (U.K.) (Tel. 493-0769); (6) Govt. of India Tourist Office, Pearl Bldg., 1, 9-18, Ginza, 7, Chome Chuo-ku, Tokyo (Japan) (Tel. 571-5062); (7) Office National Indien de Tourisme, 8, Boulevard de la Madeleine, Paris de France (Tel. 073-00-84 & 265-83-86); (8) Govt. of India Tourist Office, Carlton Centre, 55, Elizabeth St., Sydney, N.S.W. (Australia) (Tel. 281604); (9) Indisches Verkehusburo, Kaiser Strassee 77-III, 6, Frankfurt/Main (West Germany) (Tel. 232380 & 232396); (10) Office National Indien de Tourisme, 1-3, rue-de-Chantepoulet, Geneva (Switzerland) (Tel. 321813); (11) Office National Indien de Tourisme, 60, Ravenstein, Brussels (Belgium) (Tel. 11-17-96); (12) Govt. of India Tourist Office, Paseo de la Reforma No. 52-101, Mexico 1, D.F. (Mexico) Tel. 5-35-13-70); (13) Indian National Tourist Office, Sveavagen 9-11, Box 40016, 103 41 Stockholm 40, Sweden (Tel. 21-50-81); (14) Govt of India Tourist Office, Via.Albricci-9, 20122, Milano, (Italy) (Tel 804952); (15) Govt of India Tourist Office, 9, Ming Centre, Clemenceau Ave., Singapore 9 (Tel- 28989); (16) Staatlichee Indichee Veikehrsburo, C/o Air India, Room 229, Opening staircase E, 1010, Vienna, Austria (Tel. 57-21-47).

ACCOMMODATION

(List of Hotels under "Services" Please see General Index under "H".

There are modern western-style hotels in all large cities as well as at popular tourist centres. These have been classified on the internationally accepted star system. Most hotels offer a choice of first class western and Indian cuisine. Hotel charges in India are moderate compared to those of many other countries.

At tourist centres where hotel accommodation is not adequate, there are travellers lodges/tourist bungalows constructed and run by the India Tourism Development Corporation, a Government of India Undertaking, or by the State Governments which offer comfortable lodging and meals.

House boats fully furnished and staffed are moored to the banks of the river Jhelum and Dal and Nagin lakes in Kashmir and are known for their comfort and convenience.

Many centres of tourist interest in India are situated in out-of-the-way places. At most of these tourist centres there are Government owned rest houses (semi-hotel establishments) where tourists can stay. These are all close to national highways and convenient for tourist travelling by road. It is advisable to make reservations in these rest houses sufficiently in advance.

Youth Hostel accommodation is generally available in the hostels of schools and colleges in most places of tourist interest during vacations only, in summer from May to July and in winter during December. However, there is a

Youth Hostel in Delhi open throughout the year. The only organised camping facilities exist in New Delhi at the Bharat Scouts and Guides ground, Near Humayun's Tomb, New Delhi.

Details for all these accommodations can be had from any of the Government of India Tourist offices.

TIPPING

There are no set rules for tipping in India. Most hotels in India add 10 to 12½ per cent as service charge to bills. There is no service charge in Government rest houses. However, the visitor may tip at his discretion. For taxis, also, tipping is not a common practice and is discretionary.

MODE OF TRAVEL TO INDIA

Majority of the international airlines operate to India. Steamers of the following companies among others touch Indian ports. British India Steam Navigation Co., Shipping Corporation of India, Lloyd Triestino, and Mogul Line.

The overland route from Europe to India passes through France, Germany, Yugoslavia, Bulgaria, Turkey, Iran and Pakistan-Hussainiwalla, 10 miles from Ferozepur, which is the only check-post on the Indo–West Pakistan border.

There is also a rail-cum-sea route to India. Rail connections are available from European countries to Turkey and then to Basra (Iraq). From Basra, there are regular sailings to Bombay.

Travel within India: Domestic air services are operated by the Indian Airlines, a Government corporation. A network of services connects more than 70 cities including many centres of tourist attraction. Between the major cities of Delhi, Bombay, Calcutta and Madras, jet aircraft fly regularly. (See air route map along with map of India on the paste-up flap giving connections to some important tourist centres).

The railways in India go almost everywhere. Criss-crossing nearly 3,268,100 sq. kms. (1,261,794 sq. miles) of Indian territory are some 59,790 kilometres of rail-routes.

Motoring in India: India has a fine network of metalled roads which connect all the important cities. Tourists who wish to travel by automobile can obtain full information regarding road conditions, driving regulations, driving licences, 'Triptyque' and 'Carnet', from the recognized Automobile Associations listed below. Self-drive cars, however, are not available on hire at present.

(1) The Automobile Association of Upper India, (behind Hindustan Times Bldg.), Lilaram Bldg., 14-F, Connaught Place, New Delhi 110001 (Tel. 42063 & 47565); (2) Western India Automobile Association, Lalji Naranji Memorial Bldg., Churchgate, Bombay 400020 (Tel. 291085); (3) Automobile Association of Eastern India, 13, Ballygunj Circular Rd., Calcutta-700019 (Tel. 475131); (4) Automobile Association of South India, 38A, Mount Rd., Madras-600006 (Tel. 86121/2/3); (5) U. P. Automobile Association, 32A, M. Gandhi Rd.,Allahabad 211001 (Tel. 2445).

Insurance: A third party insurance is compulsory for all motor vehicles which are in use. The insurance must be with a company registered in India.

Traffic circulation is on the left and the price of petrol is Rs. 1·52 per litre (4·5 litres are equivalent to one gallon, approximately Rs. 6·60 per gallon) in Bombay, even though the prices vary from place to place, and lubricating oil is approximately Rs. 3.50 per litre.

Visa: Every foreign tourist entering India should be in possession of a valid passport issued by his Government.

He should also obtain before leaving his country a tourist visa from the Indian representative abroad (or the British representative in countries where there are no Indian representatives). Commonwealth citizens (except those of Pakistan, Ceylon, Uganda, persons employed in the Defence Services of Pakistan, British subjects, British protected persons, missionaries, and British citizenship passport holders ordinarily residents of Kenya, Nationals of Norway, Sweden, Denmark and Finland, Yugoslavia and West Germany are exempt from the visa requirement for a period of 90 days provided their passports are valid for travel to India. Persons of non-Indian origin domiciled in South Africa are, however, required to obtain visas for India.

Tourists who arrive without a visa may be allowed by the Immigration Authorities at the port of arrival to land and stay in India for a period of upto 21 days provided they are holding tickets for their outward journey from India. Such permission, which will be available for air and sea passengers, may also be made valid for departure from India from a port other than the port of entry. Collective landing permits may also be issued to tourists travelling in organised groups. Temporary landing permits are not issued to tourists entering India by road and to nationals of certain countries.

Foreign visitors require special permits to visit certain areas like Darjeeling in West Bengal and Shillong and Kaziranga in Assam. These permits may be obtained either from the Foreigner's Registration Offices at Bombay, Delhi, Calcutta and Madras or from the Immigration Officers at the airport in the above cities. Foreigners who wish to visit Sikkim and Bhutan must apply two months in advance to the Ministry of External Affairs, Sikkim and Bhutan Section, New Delhi.

A foreigner resident in India, who wishes to make short trips abroad if not more than 3 months, can obtain "Return Visas" from the Foreigners' Regional Registration Offices or the State Governments. If the visit abroad is of longer duration "No objection to Return" endorsements can be obtained. Such endorsements are valid for one year in the case of missionaries and 6 months in the case of others and within these periods; Indian Missions can issue re-entry visas on the strength of such endorsements.

No registration is required for foreigners staying in India for 90 days or less provided they have come on visas of 3 months or less. If they land in India with visas for more than 3 months' stay, then they must report for registration within 7 days to the Registration Officer of their destination and present the "B" Form (temporary registration certificate) issued to them at the place of entry.

Commonwealth citizens (other than missionaries) are exempted from registration formalities except British Passport holders whose national status is described as British Subject and missionaries, British protected persons and Australian protected persons.

Return visa or double/triple entry visa holders would be required to get themselves registered after 90 days of their actual stay in India and not after 90 days of their first entry into India.

Departures: Tourists, if they are registered, are exempted from reporting their movements. However, all visitors holding registration certificates have to obtain, before departure, exit endorsements from the Registration Officers of the district in which they were initially registered. The Foreigners' Regional Registration Officers can also grant these endorsements to visitors residing within their jurisdiction. Permits have to be surrendered at the Foreigners' Registration Office in the city and not at the airport.

There are no restrictions but it is advisable to take Cholera, Typhoid, Small-pox and Yellow fever innoculations and vaccinations.

Yellow fever areas are Africa and some countries of South America. For passengers coming from or through these areas or by an aircraft which has been to an infected area but has not been disinfected it is essential to have the vaccination to avoid being quarantined for 9 days. The certificate is valid for 10 years 10 days after the vaccination.

Foreigners who come on visits not exceeding 3 months for recreational or sightseeing purposes or for attending meetings convened by the Government of India or international bodies should, in their own interest, apply for tourist visas. These may be extended for a further period of 6 months. Holders of tourist visas are entitled to the grant of Tourist Introduction Cards and All-India liquor permits which enables them to get reservation of accommodation in Government-owned rest houses and retiring rooms at railway stations, etc.

Baggage : All baggage is subject to customs examination. Articles of high value *e.g.* radios, cameras, binoculars, type-writers, transistors, etc. are exempted from duty provided they are entered in the re-export declaration form and re-exported within 6 months.

Tourists are allowed to bring into India travellers' cheques or foreign currency notes of any amount subject to declaration on the Currency Declaration Form issued by the customs at the air/sea port or checkpost on the land border.

Additional concessions for tourists:

Sporting Fire-arms : Not more than three sporting fire-arms brought in by a tourist are allowed free of duty. These must, however, be re-exported.

Cartridges : Each tourist is allowed to bring in 200 (exclusive of 50 allowed duty free) cartridges, on payment of customs duty, but without an Import Licence.

Film : A tourist is allowed to import 5 rolls of film or 12 plates for still cameras and 2 reels of movie films duty free. In addition, the tourist can import 25 rolls or 48 plates and 10 reels on payment of duty but without an import licence. However it is always advisable to check the latest baggage regulations available from the tourist offices or Indian missions abroad.

TRAVEL AGENCIES

A complete list of Govt. approved Travel Agencies appear under "Services". Please see General Index under "T".

PLACES OF TOURIST INTEREST IN CENTRAL REGION

Sanchi: It is 45 Km. (28 miles) from Bhopal, the Capital of Madhya Pradesh. Sanchi was not directly associated with the life of Buddha, but grew to be an active centre of Buddhism during the time of Ashoka (3rd Century B.C.). The magnificent and relatively well preserved monuments for which Sanchi is famous are all situated atop a hill overlooking woods where "Flame of the Forest" trees bloom fiery red in the summer. The most imposing of the monuments is the Great Stupa (about 150–100 B.C.)—huge semi-circular structure, surrounded by profusely carved gateways and railings depicting scenes from the Buddha's life. In the history of Indian art, the Sanchi stupa occupies a very important place, for it has influenced Hindu and Buddhist sculpture for many centuries that followed.

Accommodation : Tourist Bungalow; Circuit House; P.W.D. Rest House; Buddhist Guest House.

Khajuraho : Nearly 402 Km. (250 miles) south east of Delhi (flying time 2 hrs. 15 mts.) are the erotic temples of Khajuraho in Madhya Pradesh, belonging to about 950 to 1150 A.D. They are ranked among the world's top-most tourist attractions, and represent some of the most exquisite specimens of Hindu architecture and sculpture in medieval India. The carving in the temples still seem to breathe a life and passion of their own and their beautiful proportions, the vibrant texture of the carvings which enrich their walls and their impressive size testify to the glories of the master builders of those days.

Accommodation : Traveller's Lodge; Circuit House; Tourist Bungalow.

GAME SANCTUARIES

Kanha National Park : In the central highlands of India is one of the finest places for seeing Indian swamp deer, chital, blackduck, Indian bison, sambar and various carnivores. There are also nearly a hundred species of birds in this park. It can be reached by a motorable road from Nagpur (273 km. or 170 miles).

Accommodation : Forest rest houses.

Shivpuri National Park : The game preserve of the former rulers of Gwalior State, this 158 sq. km. (61 sq. miles) park is the natural abode of the sambar, chital, nilgai, chinkara and the Indian tiger. It is about 181 km. (70 miles) south of Gwalior.

Accommodation : Shivpuri Hotel, Circuit House and Dak Bungalow.

IN EASTERN REGION

Bodh Gaya : It is the most sacred of Buddhist centres because it was here that the Buddha attained enlightenment under the 'Peepal' tree. A number of monuments were raised at this site in the subsequent centuries. The Mahabodhi Temple, a magnificent structure with a pyramidal tower of nine storeys, 48·75 m. (160 feet) high, contains a colossal gilded image of the Buddha in the earth-touching posture symbolising the event of enlightenment. The temple was probably built in the 4th century A.D. and restored several times subsequently. Bodh Gaya is 11·26 km. (7 miles) by road from Gaya railway station which is connected with Patna by rail (92 km. or 57 miles).

Accommodation : Traveller's Lodge.

Darjeeling : Hill station in West Bengal lies on the lower slopes of the Himalayas about 600 km. (370 miles) north of Calcutta. It is 2,167·12 m. (7,110 feet) above sea level. From here, one can view the Himalayas in all their majesty, range upon range of perpetual snow culminating in Kanchenjunga (8,578·90 m. or 28,146 ft. high). The quaint Buddhist shrines and monasteries, the happy carefree faces of the hill-folk and above all the picturesque scenery all around will abide in the visitor's memory.

Darjeeling's great attraction is a view of sunrise from Tiger Hill, 10 km. (6 miles) from Chaurasta, the centre of the resort. As the crimson sun appears on the horizon, the white peaks become a glorious feast of colour. The Kanchenjunga can always be seen, while the Everest, the highest peak in the world, is visible only on a clear day. Other favourite walks for the visitor are to Birch Hill and Lebong. The former is a reserve forest with an excellent park. Here the visitor will find oak, chestnut, cherry, maple, birch and alder. Lebong is a fine spur where English fruit-trees and the tea plant flourish. The racecourse here has the reputation of being the smallest and also the highest in the world.

Not far from the Birch Hill Park is the Himalayan Mountaineering Institute which provides training in the science and art of mountaineering in the Himalayas. Mr. Tenzing Norkay, who climbed the Everest along with Sir Edmund Hillary, is associated with the Institute. The Observatory Hill, above the church, is known to the Buddhists as 'Rdo-rje-gling', 'the place of the Dorje', the mystic thunderbolt of the lamaist religion. It is from this that Darjeeling takes its name. The bazars of Darjeeling are very exciting. There you will find curios, carved wooden boxes, exotic pieces of jewellery, embroidered shawls and art objects. On Saturdays and Sundays, the picturesque hill-folk—Bhutias, Nepalese, Tibetans, Lepchas — throng the market place with their wares and look most colourful.

Darjeeling can be reached from Calcutta by air upto Bagdogra and from there by road (88 km. or 55 miles).

Accommodation : Oberoi Mount Everest, 15, Gandhi Road; Windamere Hotel, Observatory Hill; Central Hotel, Robertson Road.

Bhubaneshwar : Orissa's new capital, a metropolis of temples, was built around a sacred lake which was once encircled by some 7,000 shrines. Now only 500 remain in decay, presenting a complete picture of Orissan art and history from the 3rd century B.C. to the 16th century A.D. The great Lingaraj Temple is supposed to be "the finest example of a purely Hindu temple in India". Pilgrims come here for blessings and then take a dip in the sacred lake "Bindu Sagar" to wash away all sins. This 20th century garden city has many other attractions like the nearby Jain and Buddhist rock cut caves of Khandagiri and Udayagiri. The beautifully preserved Asoka's rock edicts at Dhanli, carved around 260 B.C. narrate the horrors of the Kalinga war and Asoka's acceptance of the path of non-violence.

Accommodation : Traveller's Lodge and the State Guest House.

Puri : About 63 Km. (39 miles) by road from Bhubaneshwar is the sacred city of Puri dominating Orissa's sea coast in all its secluded splendour. It is one of the 'Char Dham', the four most holy places of pilgrimage in India, the three other being Badrikedarnath in the north, Rameshwaram in the south, and Dwarka in the west. Every year, in the month of June, as many as two hundred thousand visitors and pilgrims flock to Puri to watch the Car Festival, when the images of the Jagannath ('Lord of the Universe') Temple are taken over a distance of one mile to the garden shrine of Gundicha Mandir. The gigantic car 11 m. (35 ft.) long and 14 m. (45 ft.) high with 16 wheels — each 2·13 m. (7 ft.) in diameter — is used for carrying the deities. It is a unique sight to see thousands of devotees vying with each other to pull the chariot.

Modern Puri has been built more or less along the beach which stretches east to west. The sea is shallow for about a mile from the beach, but the surf breaks with a rare violence on the shore. From early morning the beach is thronged with people who sport or bathe in the roaring but harmless waves.

Accommodation : South Eastern Railway Hotel; Circuit House; P.W.D. Dak Bungalow; Forest Rest House.

Konarak : The Sun Temple of Konarak, on the seashore, about 66 km. (41 miles) from Bhubaneshwar is stupendous in proportions and truly amazing in its ornamentation. Standing in lonely splendour among the sand dunes, built in 1250 A.D. and dedicated to the Sun God, the temple is in the architectural image of the mythical chariot of the Sun rushing through the blue heavens. The twelve pairs of wheels of the chariot are the last word in sculptural artistry and the seven horses in front, straining to pull the massive weight, are superbly executed. Intensely lovely are the thousand and one figures — musicians, lovers, couples in embrace, floral designs, the enormous horses and elephants flanking the temple, scenes of the battle and the chase — all masterpieces.

Accommodation : Traveller's Lodge at a short distance from the temple is a very comfortable place to stay in, but tourists prefer to visit Konarak in a one-day trip from Bhubaneshwar.

Chilka Lake : About 96 km (60 miles) south of Bhubaneshwar is this great lake, famed for its rich bird life and a favourite resort for fishermen. Its scenery is of great natural beauty and many people travel there to watch the ever-changing light at dawn, at noon, at sunset, in winter and in summer, in sunshine and in the rains.

Some of the most attractive aborigine tribes live in the neighbourhood of this lake.

Accommodation : P.W.D. Inspection Bungalow at Barkul which overlooks the lake.

Hyderabad-Secunderabad : The twin city linked together by the Hussain-Sagar (lake), is the capital of Andhra Pradesh. It is a centre of Muslim culture and learning and the fifth largest city in India. Standing on the banks of the river Musi, it was till 1948 the capital of Hyderabad State of Nizam, one of the richest men in the world. The Salar Jung Museum crammed with curios from all over the world, old manuscripts, costumes and ancient weapons is a living proof of the riches. Trapezoid in shape the city is surrounded by a stone wall. At the junction of wide avenues stand the Char Minar, a stately rectangular white building with four tall minarets often referred to as the "Arc de Triomphe" of the East. It is the famous landmark of Hyderabad and curiously made more famous by a brand of cigarettes of the same name said to be one of the strongest, cheapest and most satisfying kind on the market. To the south of Charminar lies the Chaumahalla Palace and to the west the Mecca Masjid, the principal mosque of Hyderabad. Built entirely of stone and richly decorated in coloured and polished plaster it boasts of an interior that can hold ten thousand worshippers at a time.

The Falaknuma Palace, the Osmania University and the beautifully laidout river gardens are some of the recent additions to the city that blend well with the old.

The tombs situated 8 km. (5 miles) out of the city, are of Qutbshahi kings who ruled in the 16th and 17th centuries. Next to it is the massive Golconda Fort. It is surrounded by a strongly built wall of solid blocks of granite, with eighty-seven bastion at the angles, on which there are still some of the old guns. Now in ruins it was once famous as the diamond mart for the nearby mines.

Accommodation : Ritz Hotel, Hill Fort Palace; Rock Castle Hotel, Jubilee Hills; Percy's Hotel, Sardar Patel Road; Sagar Mahal, Osmansagar; Visranthi, Osmansagar.

GAME SANCTUARIES

Jaldapara Sanctuary : This 93 sq. km. (36 sq. miles) area on the river Torsa in North Bengal is the abode of the famed Indian rhinoceros. Swamp and barking deer, sambar, pig and sometimes wild elephants are also seen here. Best months to visit are December to May. The nearest airport is Cooch Behar 100 km. (62 miles), which is connected by air with Calcutta.

Accommodation : Tourist Bungalow.

Kaziranga Sanctuary : Famous as the main stronghold of Indian rhinoceros this 430 sq. km. (166 sq. miles) of sanctury also has elephant, wild buffalo, deer, sambar and many species of water birds. Best visited between

December and May. It is 218 km. (135 miles) from Gauhati which can be reached by air from Calcutta.

Accommodation : Forest Inspection Bungalow at Baguri.

Manas sanctuary : Close to the Himalayas, it is 153 km. (95 miles) west of Gauhati. Besides wild buffalo, elephant, Indian bison, tiger and deer the added attraction is the scenic beauty. Fishing is also possible here. October to May is the good time to visit.

Accommodation : Forest Department Bungalow at Mothanguri.

Note : A special permit is required to visit Kaziranga and Manas Sanctuaries in Assam State. It can be obtained from Assam House, 8 Russell Street, Calcutta-16, which would take about five to six day's to process. This applies to all regions in Assam and Meghalaya except Shillong.

IN NORTHERN REGION

Delhi : Like Rome, the capital of the Indian Republic, is an 'eternal city', and with a history even more chequered and ancient. In the ancient days, the city shifted its site at least seven times and the ruins of all these townships are still there for anyone to see.

There are today two Delhis — the old city of the Mughals built by Shah Jahan, the Emperor who built the Taj, and the new city built by the British in 1931. While Old Delhi evokes a distinctly oriental atmosphere, the New Delhi has wide avenues and imposing office buildings. Both the cities are rich in monuments and mosques; such as the Red Fort, the Jantar Mantar Observatory, Humayun Tomb, the Parliament House, the Rashtrapati Bhavan and many more.

Accommodation : Hotel Oberoi Intercontinental, Wellesley Road; Ashoka Hotel, 50-B, Chanakyapuri; Claridges Hotel, 12, Aurangzeb Road; Hotel Imperial, Janpath; Hotel Rajdoot, Mathura Road; Hotel Oberoi Maidens, 7 Alipur Road; Hotel Janpath, Janpath; Nirula's Hotel, L Block, Connaught Circus; Lodi Hotel, Lala Lajpat Rai Marg.

Agra : The city of the world famous Taj Mahal has many other historical sites of interest like the fort of the Mughals, the ruins of Fatehpur Sikri — a city built by Akbar — a Mughal Emperor. It also has numerous and fabulous tombs of eminent personalities. Special tourist bus and trains run from New Delhi for a day's journey.

Accommodation : Hotel Clarks Shiraz, 54, Taj Road; Lauries Hotel, M. Gandhi Road; Grand Hotel, 137, Station Road; U.P. Govt. Tourist Bungalow, Opp. Raja-Ki-Mandi Railway Station.

Chandigarh : Now a Union Territory and also the capital of the Punjab and Haryana, the youngest of the Indian capital cities, it is a striking example of modern town planning conceived by Le Corbusier and Maxwell Fry. Advanced styling is adapted to the local climatic needs making it an unique city in the whole of India.

Accommodation : Hotel Oberoi Mount View, Sector 10; Dak Bungalow.

Amritsar : City in the Punjab, is the religious capital of the Sikhs. It was founded in 1577 around a sacred pool, from which the city takes its name "Pool of Nectar". The Golden Temple stands in the centre of this pool. The marble based temple has bronze sides and dome which are heavily covered with pure gold leaf. These reflect the tropical sun into the still waters of the pool, illuminating it and creating an atmosphere of awe and respect. There are a few more of the Sikh and Hindu temples worth seeing, but none surpass the peaceful aura of the Golden Temple.

Accommodation : Hotel Airlines, Cooper Road; Mrs. Bhandari's "Guest House", 10 Cantonment.

Almora : In U.P. (133 km. or 83 miles from Kathgodam Railway Station) is the main town in Kumaon Hills. Perched at an elevation of 1,706·88 m (5,600 ft.) it is about two miles in length like a saddle, and is said to have been founded four hundred years ago by Raja Kalyan Chand. Almora has moderate rainfall, temperate climate, the temperature seldom rising above 31°C (88°F), even during the summer days, and comparative freedom from fog. Within easy distance of Almora are many Himalayan peaks — Seehee Debi, Bandnee Debi and Binsar being the chief ones. Binsar Hill also known as Jhandi Dhar is only 21 km. (13 miles) from Almora and the bridle path leading to it, passes through enchanting jungle scenery.

Accommodation : Available at the Government circuit house for which an advance booking has to be made.

Pindari Glacier : Can be reached from Almora at a distance of 120 km. (75 miles) in eight stages, attaining an altitude of 3,963 m. to 4,267 m. (13,000 to 14,000 ft.). The most suitable time for this trip is either May–June or September–October.

Naini Tal : Hill station also in Kumaon Hills, is attractively situated around a mountain lake 1,935·48 m. (6,350 ft.) above sea level. A shady avenue skirts the lake. On either side of the lake rise lofty hills dotted with beautiful villas and bungalows. There are a number of picnic spots around from where one can have a magnificent view of the snow peaked Himalayan mountain range. Nainital District has a chain of lakes lying close to one another, the prettiest amongst them being lake Naini itself. They are a veritable paradise for the angler. Besides fishing, one could also do swimming, yachting, boating, riding, skating and trekking.

In the Kumaon Hills apples, peaches, cherries and apricots are grown in abundance. A long drive around these orchards is very refreshing.

Accommodation : Swiss Hotel; Belvedere Hotel; Grand Hotel; Ardewell Camp; Brookhill Camp; Langham House; Log Cabin, Cheena Peak; Nainital Club; Tourist Home.

Kashmir : The Great Mughals, who were connoisseurs of the good things of life, described Kashmir as 'the earthly paradise'.

Indeed, it is difficult to imagine anything more lovely. It is a vast, rich, green valley criss-crossed by streams and rivulets and encircled by stupendous snow-clad mountains — 'an emerald set in pearls'. Nature has adorned it with lakes of limpid waters, bubbling springs by hill-sides, upland pastures and springy meadows. Clothing the valley is a vast expanse of paddy fields and forests alive with a variety of birds and animals. To enhance its natural beauty, pleasure gardens were laid out by the Great Mughals at many places in Kashmir.

Kashmir is just the place for a perfect holiday.

Here you can stay in luxury in a floating hotel called the 'house-boat'; glide gently on the placid waters of the Dal Lake in a shikara; play golf on perhaps the world's highest golf-course; enjoy a variety of water sports; or, if you are adventurous, go trekking or hunting. Also, you can take back home some of the exquisitely embroidered, carved, chiselled or painted handicrafts for which Kashmir is known the world over.

Srinagar : Is a central place from where excursions and pleasure trips to all parts of the valley can be planned. It is itself a picturesque place with lakes, gardens and monuments along the river Jhelum.

Srinagar is an ancient city believed to have been first built by Emperor Asoka in the third century B.C. The Jhelum flows through the heart of the city, dividing it into two parts which are connected by nine bridges. A trip down the river in a swiftly gliding shikara would give the visitor a feel of the city's picturesque balconies, busy ghats, mosques and temples.

Gulmarg : Is about 46 km. (29 miles) from Srinagar, a huge grassy bowl, known for its golf-course. The last 6·4 km. (4 miles) of the journey are covered either by a pony or on foot and, with special permission, by jeep also. At the end of the climb, the visitor is rewarded with a magnificent view of Gulmarg which has numerous walks and picnic spots.

Pahalgam : In the lovely Lidder Valley, about 97 km. (60 miles) from Srinagar is known for its exquisite scenery, springs and streams. It is also the base for treks to higher points like Amarnath and Sheshnag.

Accommodation : Srinagar :—Hotel Oberoi Palace; Nedous's Hotel; Gulmarg :—Hotel Highlands Park; Nedous Hotel; Dak Bungalow; Pahalgam :—Dak Bungalow.

Kulu and Kangra Valleys : Well-known for its picturesque landscapes and historic temples, lies in Himachal Pradesh. 33·7 km. (21 miles) from Kangra is the famous temple of Jwala-Mukhi, built up against a rocky cliff. An inflammable gas issues forth from a cleft in the cliff, creating an atmosphere of reverence. Kangra has several tea gardens while Kulu is well-known for the fruit orchards. The winding narrow roads flanked and shaded by pink blossomed apricot trees, huge rhododendrons and blue and purple iris in different seasons lead to the hilltops that look down on a gorgeous alpine scenery. These valleys are favourite vacation places as the summer is never uncomfortably hot and offer sports like golf, tennis, swimming, hiking and trout fishing.

Here the simple and unsophisticated people are a contented lot with few needs and fewer worries. These happy-go-lucky people hold fairs and festivals throughout the year and it would be wise to check and be there on a festival.

Accommodation : At Kangra : Civil Rest House; At Kulu : Traveller's Lodge; Civil Rest House; Forest Rest House; Calvert Lodge and Hotel May Flower; At Katrain : Riverview Guest House; At Manali : Orchards Guest House.

Allahabad : (Also called Prayag) : City in U.P. situated at the confluence of the Ganga, the Jamuna and the unseen Saraswati. The confluence is the holiest bathing place for Hindus. Every 12 years, Kumbha Mela (religious fair) is held attracting over four million of pilgrims during the four weeks. The last one was held in February 1965. A smaller fair occurs every six years — Adha Kumbhi. The old Mughal fort contains an underground temple where well carved images are seen and the pilgrims worship at a small tree taking it to be the Eternal Banyan Tree (Akshaya Vata). 104·6 km. (65 miles) from Allahabad is Kosambi, where the ruins of an ancient capital are being excavated.

Accommodation : Barnetts Hotel, 14, Mahatma Gandhi Road.

Banaras : Now known as Varanasi, is more than a holy city of the Hindus; it represents a way of life. For more than a thousand years this centre of Hindu pilgrimage has lived a rich life haloed by tradition on the banks of the great river Ganga which reaches Varanasi in a graceful curve. For more than a thousand years great masses of people have come here from every corner of the country to receive spiritual sustenance.

The oldest city in the country and perhaps the oldest living city in the world, Varanasi has about 1,500 temples besides countless minor shrines which are thronged with pilgrims all the year round.

Sarnath, a Buddhist centre with many architectural ruins, is about 9·6 km. (6 miles) from Varanasi. The Buddha preached his first sermon here.

Accommodation : Clarks Hotel, The Mall; Tourist Bungalow, Parade Kothi; Railway retiring room.

Jaipur : Capital of Rajasthan State, it was planned and built by an astronomer-prince in the 18th century, when there were few planned cities even in Europe. "I have seen Jaipur, and now I can die" was how Max Lerner, a famed traveller, felt after having an eyeful of this beautiful pink city. Comparing it with Venice and Paris, he named Jaipur along with them as the three most beautiful cities of the world. But he found something more in Jaipur — a dream quality about the fabric of its delicate gossamer structure, its lattice work and pink terracotta. This picturesque city — a fantasy in stone — set in the heart of Rajasthan is encircled by rugged hills crowned with medieval fortresses reminiscent of the days when the valiant Rajputs fought fierce battles and long drawn out wars to save their beloved land from invading alien hordes. The city palace in the centre of Jaipur is now a museum of Rajput & Mughal miniature paintings, an armoury and rare manuscripts. The Hawai Mahal Palace of the winds — has so many windows with perforated screens that the breeze sweeps through them. Maharaja Jai Singh who built the city in 1727 was also a great astronomer. He built an observatory with instruments of his own design. About 11·2 km. (7 miles) away is Amber palace perched on the slopes of a steep hill and surrounded by a lake. A majestic elephant takes the visitor up the slopes and into this mysterious palace that possesses the world's best chamber of mirrors. Jaipur pottery, brass ware, sculpture, ivory and sandalwood work and jewellery have enjoyed a great reputation from ancient times.

Accommodation : Rambagh Palace; Jai Mahal Palace Hotel, Civil Lines; Rajasthan State Hotel, Mirza Ismail Road, Khasa Kothi; Kaiser-i-Hind Hotel, Tourist Palace, (near Rly. Station); Hotel Khetri House; LMB Hotel, Johari Bazar.

Udaipur : In Rajasthan, is the romantic city of lakes with island palaces. The sprawling marble palaces with coloured glass of amber and pale jade reflect in the steel blue waters of the lake Pichola. Hundreds of green parrots lend a peaceful colour to the early morning skies. Surrounded by wooded hills the city is aptly called the 'City of Dreams'. The Jag Nivas palace with fountains and gardens and apartments with courts, has now been turned into the Lake Palace Hotel and offer the visitor a unique and unforgettable stay.

Other accommodations : Garden Hotel and Motel, State Hotel, Laxmi Vilas Palace Hotel.

About 112·6 km. (70 miles) from Udaipur is Chittorgarh. The ruins of this abandoned capital of Mewar speak eloquently of the many grim and glorious deeds of Rajput heroism and sacrifice which have almost become a myth.

Mount Abu : In Rajasthan (3822 ft. above sea level) is famous for its Dilwara group of Jain temples (11th-13th century A.D.). Having the most intricate and finest marble-carvings in India, these beautiful temples nestle among the lush green mango trees. Hills surround them on all sides and the scenic beauty is very enchanting. Abu is known for its variety of birds and the flowering trees in its jungles. It is reached by rail and road from Ahmedabad.

Accommodation : Palace Hotel, Bikaner Palace.

GAME SANCTUARIES

Corbett National Park : In Uttar Pradesh lying in the beautiful foothills of the Himalayas it is the haunt of tigers, leopards, deers and sambars, also hyenas, jackals and wild elephants. It is 294 km. (183 miles) by road from Delhi. Best time to go there is between January and May.

Chandraprabha Sanctuary : Also in Uttar Pradesh is 72 km. (45 miles) from Banaras. In 1957, it was selected as a suitable new home for the Indian lion and some of them were brought here from the Gir Forest in Gujarat. Nilgai, pig, chinkara, sambar and chital are also found here. Best time to go there is between December and April.

Dachigam Sanctuary : In Jammu and Kashmir State, it consists of Lower and Upper Dachigam, about 20 kms. (13 miles) from Srinagar, were one can still spot the famous but now very rare Kashmir stag. Black bear and pig are also found in this beautiful scenic surrounding.

IN SOUTHERN REGION

Madras : Capital of Tamil Nadu is the gateway to a pleasant land, the city of an ancient civilization exemplified in its many monuments of the past with a rich heritage of culture. Although being carried along on the stream of progressive development yet remaining largely unspoilt, Madras is one of the more attractive cities of India. Perhaps the first claim to fame for Madras is its wonderful foreshore of fine sandy beach stretching from the harbour to the limits of the city at the Adyar river and then beyond for many miles to the south. It is a source of pride to the people, for it is considered to be the second longest beach in the world. There are delightful gardens along its whole length with many varieties of flowers.

Speaking of culture the visitor instantly feels the difference between the rest of India and the south in this city which can be the starting point for an introduction to the Dravidian culture. The many invasions of the aliens never quite reached upto the south and the pureness of this culture remains intact. The temples, the music the dance all vibrate in its original form and one should never leave Madras without seeing a Bharat Natya dance performance. Much of the poses and stances of this dance are depicted in the sculptures of the South Indian temples.

Accommodation : Connemara Hotel, Binny's Road; Hotel Victoria, Egmore; Hotel Imperial, 3, Whannels Road; Woodlands Hotel, 1/23, Edward Elliots Road; Hotel Claridges, 14, Thambuswamy Road; Tourist Home, 5, Gandhi Irwin Road.

Mahabalipuram : 59·5 kms. (37 miles) out of Madras are some of the ruins of the great Pallava Empire. The shore temple, a little gem of a shrine, stands poised on the very shore, the waves beating against it. The cave temples are store-houses of art. The so-called pagodas are actually known as rathas. They are carved out of rocks in the form of temple chariots and are the chief glory of Mahabalipuram.

About 64·3 kms. (40 miles) out of here is Kanchipuram the capital of the Pallavas. It is an easy trip from Madras to visit both these places in a day.

Conjeevaram (Kanchipuram) : The city of temples, the Banaras of the South, is about 72 km. (45 miles) to the southwest of Madras. The place is divided into three parts, Shiva Conjeevaram, Vishnu Conjeevaram and Pillayar Paliyam, a testimony to the part played by all the main Hindu religious sects in the history of the city.

There are over a thousand temples in all, amongst them is the temple of Kailasnath, believed to be 1,200 years old and contains some excellent 7th and 8th century paintings on the walls. More of these wall paintings are seen in the Vaikunthanath Perumal Temple which is also over 1,000 years old.

It is a one-day excursion trip from Madras, but one can stay at the Traveller's Lodge.

Pondicherry : 167 km. (104 miles) by road from Madras. The atmosphere of a sleepy French provincial town still prevails here. It was returned to India in 1954 after the French rule of 250 years. The main attraction of this place is the ashram of the philosopher Aurobindo Ghose.

Auroville 'the City of Dawn' is being built on the outskirts of Pondicherry. It will be the first 'World City' where any national can have a home.

Accommodation : Grand Hotel d'Europe, rue Suffren; Continental, Beach Road. It is also possible to stay at the ashram.

Kanya Kumari or Cape Comorin : In Tamil Nadu, named from the temple of Kumari (an attribute of Parvati) is at the southern-most tip of the Indian peninsula. Here the Arabian sea and the Bay of Bengal meet the Indian Ocean. According to a legend Siva married the Goddess Parvati, daughter of King Himalaya on the rocks where the temple now stands. Offshore are the two rocks where Swami Vivekananda sat in meditation before he left for the United States. Now on them stands a huge and imposing memorial to the Swami.

Accommodation : Kerala House.

Ootacamund : Ooty for short is a hill station in Tamil Nadu. Over 2,286 m. (7,500 ft.) above sea-level, Ooty has a temperate climate. The rainfall rarely exceeds 1,016 mm. (40 in.) so that Ooty has excellent weather throughout the year, and during the season from April to June, it ranks amongst the gayest resorts in India. It reposes in an amphitheatre surrounded by four great hills. On the slopes of the hills are residential and office buildings. At the bottom of the valley enclosed by them is Ooty's artificial lake which could pass for a natural one. Conceived by Sullivan in 1823 and meant for irrigation, it turned out to be so lovely that it was preserved for its sheer beauty. The lake provides facilities for boating and fishing. Walking round the lip of the lake towards the bazar one comes to the edge of Hobart Park where there is the race-course. Racing is a weekly event in Ooty during the season. By the side of the park stands the chief bazar in Ooty. West of this are the Wenlock Downs — an expanse of undulating springy turf embellished with woods and streams. Here are also the golf-links. These downs are the home country of the Ootacamund Hunt.

The terraced Botanical Gardens, a landmark in Ootacamund, were laid out by an expert from London's Kew Gardens, over a century ago. It has many rare trees and flowering plants. Ooty's flower, fruit and vegetable shows are attended by people from all over the Nilgiris, and here the fashionable jostling with the tribal folk present a colourful spectacle.

Ooty is known for its tea and coffee plantations. There are hundreds of tea estates in and around Ootacamund. A variety of game animals are available along the jungle slopes of the plateau and in the extensive forests.

Accommodation : Savoy Hotel; Hotel Dasaprakash; Tourist Bungalow.

Kodaikanal : Famous hill station on the Palni Hills in Tamil Nadu, it is about 2,343 m. (7,688 ft.) above sea-level and has a temperate climate. The place affords plenty of scope for such recreations as walking, hiking, boating.

fishing, hill climbing and golf. For the more adventurous there is big game hunting. Kodaikanal is the delight of the gardener and flowers are in bloom all the year round. The long winding road up the hill reminds one of the road up to Sorento in Italy. The greenery on the way is breathtaking. The different waterfalls make Kodaikanal a truly beautiful vacation spot. A man-made lake with a three-mile shady promenade around it is the popular place in the evenings. Kodaikanal has a hint of a place somewhere on the continent with chalet-type houses perched at random on the slopes of the Palni Hills.

Accommodation : Carlton Hotel; Holiday Home; Laughing Waters Guest House and High Way Traveller's Bungalow.

Cochin : In Kerala it is one of the important ports on the west coast of India and, yet it is very different than a typical commercial port. Shady lagoons, wooded islands, ancient palaces and churches are encircled by canals of palm fringed shimmering backwaters. In fact Cochin is a cluster of islands and towns linked by bridges.

In Mattanchari is the community of Jews that came to Kerala as early as the 1st Century A.D.

A side trip down the west coast to Alleppey and then on to Quilon on the backwaters, offers breathtaking scenery. Lush vegetation and palm thatched villages are dotted with churches in Portuguese colonial style.

Accommodation : Sea Lord Hotel, Shanmugham Road, Ernakulam; Casino Hotel, Willingdon Island; International Hotel, M. Gandhi Road, Ernakulam; Grand Hotel, M. Gandhi Road, Ernakulam.

Trivandrum : The sea-side capital of Kerala is built like Rome, on hills. Many parks and lovely buildings with their gabled roofs, stand on low hillocks, while the restful valleys below are adorned with coconut groves. Trivandrum means "the place of the sacred snake Anant". The imposing temple of Sri Padmanabhaswami is dedicated to the Hindu God Vishnu, his image reclining on Sheshnag, the enormous hooded serpent.

A long drive from Alleppey to Trivandrum via Quilon has a very picturesque scenery along the west coast of India.

Accommodation : Mascot Hotel; Hotel Magnet.

Mysore : It has a quiet charm so characteristic of a university town. For long the seat of an ancient ruling family, it has a good deal of colour and glamour. Besides palaces and gardens this place is famous for its ivory and sandalwood carvings and cast metal statuettes.

Accommodation : Hotel Metropole, Jhansi Laxmibai Road; Hotel Krishnaraj Sagar, Krishnaraj Sagar.

EXCURSIONS OUT OF MYSORE

Shrirangapatna : The city of Lord Ranganath — takes its name from the imposing temple of Vishnu. This quiet island-town on river Kaveri 16 km. (10 miles) from Mysore, is reminiscent of many battles and past glories. On special occasions devout Hindus pass through this place to bathe in the river and to worship in this shrine.

Tipu Sultan, son of Hyder Ali, inherited a large dominion from his father. Srirangapatna was its capital and it became the centre of diplomatic manoeuvres against the rising power of the British. Tipu's summer palace in the midst of an exquisite garden on the river bank has large panels with paintings depicting battle scenes and processions that recall episodes from his and his father's life. The walls, pillars, arches and roofs are covered with an amazing variety of painted designs made gorgeous by a liberal use of gold.

Sravana Belgola: Wedged in between two hills, which rise abruptly from a flat plain, Sravana Belgola dominates the countryside for four miles with its 17·37 m. (57 ft.) high Jain colossus of Lord Gomateswara, shaped out of a single rock. This monolithic statue was carved in 983 A.D.

The town, a flourishing centre of Jain pilgrimage, abounds in monuments that recall the achievements of a bygone age. It is about 100 km. (62 miles) from Mysore.

Belur : 56·3 km. (35 miles) from Sravana Belgola is Belur, 800 year's ago a flourishing capital of the Hoysala kings. Its chief place of interest is the 12th century temple of Chenna Keshava, a manifestation of Vishnu. Its outer walls are decorated with an amazing variety of carvings. No description can do justice to the infinite patience and skill with which the sculptors fashioned the intricate details of the scroll work, the niches, the elephants, the miniature turrets and human figures and gods. The interior of the temple also displays a profusion of artistic skill lavished on the pillars, ceilings, doorways, and bracket figures.

Halebid : 12·8 km. (8 miles) from Belur, it was the metropolis of the ancient Hoysala rulers. The Lord Siva temple built about the same time as the Belur Temple has every inch of its outer wall covered with friezes of great variety. Remarkable for artistic skill are the sculptured elephants, horses, mythical beasts and birds, the scroll work of infinite beauty and variety, and the big panels of gods and goddesses of the Hindu pantheon running all round the walls.

Usually all these places are visited from Mysore in a day and a half's trip with a night stop at the comfortable Traveller's Lodge at Hassan.

Bijapur : Town in Mysore State, capital of the old Adilshahi Sultans of Bijapur, is rich with the remains of palaces, mosques and tombs. Gol Gumaz the vast mausoleum of Mohammed Adil Shah (17th century) has a dome which is the second largest in the world with St. Peter's at Rome outdoing it by merely 15 feet. The Whispering Gallery inside the dome is called thus, because the enclosed space is so constructed that it has remarkable acoustics and a soft whisper at one point of the gallery can be heard most distinctly at the opposite point. Jama Masjid of Bijapur is the greatest mosque in the south and also one of the finest in India.

Accommodation : Traveller's Lodge.

GAME SANCTUARIES

Rangathittoo Bird Sanctuary : It is a mile away from Srirangapatna and 14·4 km. (9 miles) from Mysore. Consisting of islets in the Kaveri river, it is inhabited by a variety of storks. Primarily it is a breeding place for herons. Also during the months of June to August other birds like white ibis, Indian dartar, cormorant and cattle egret breed here.

Accommodation : Travellers' bungalow at Srirangapatna.

Bandipur Sanctuary : 78·8 km. (49 miles) from Mysore on the road to Ooty is the game preserve of the former rulers of the Mysore State. This sanctuary now shelters herds of wild elephants, the Indian 'bison', the spotted deer, tiger, sloth bear and leopard. Tame elephants can be hired for a ride around the sanctuary and it can be visited at any time of the year.

Accommodation : Three forest lodges and one travellers' bungalow.

Mudumalai Sanctuary : Adjacent to Bandipur is this sanctuary of 295 sq. km. (114 sq. miles). Gaur, sambar, elephant, barking deer, chital, wild boar and occasionally a tiger or a leopard are seen here. A variety of birds are also found here. It is 96·5 km. (60 miles) from Mysore.

Nagarhole Sanctuary : It is 228 km. (142 miles) from Mysore via Mercera. Wild elephant, deer, panther, jackal and if one is lucky, the tiger can be spotted here. One can stay at the Forest Lodge.

Dandeli Sanctuary : It is well-known for elephant, bisons, panther, tiger, sambar and chital. The place abounds in excellent viewpoints and beauty spots. It is about 76 km. (47 miles) from Dharwar by road which is connected with the nearest airport Belgaum by rail (121 km. or 75 miles). The sanctuary, which is not accessible during the monsoon months of June to October covers an area of 207 sq. km. (80 sq. miles).

Accommodation : Four forest bungalows at Dandeli.

Periyar Sanctuary : One of the finest spots in the country, the wild life sanctuary at Theckady in Kerala consists of an artificial lake of 26 sq. km. (10 sq. miles), in a sanctuary of 673 sq. km. (260 sq. miles). It is famous for its wild elephants besides Indian 'bison', sambar and stray panther and tiger. October to May are the best months for a visit. Motor boats take visitors about on the lake from where all these animals can be watched in comfort.

Vedanthangal Bird Sanctuary : 139·8 km. (54 miles) south of Madras this small sanctuary breeds birds like, white ibis, night heron, spoon bill, open bill stork, Indian dartar, grey heron, egret and two species of cormorant. Good months to visit are from November to February.

IN WESTERN REGIONS

Bombay : Arriving by sea or by air, one is struck by its lovely natural setting — the far-away blue outlines of the majestic Western Ghats, the calm sea dotted with fishing boats gliding smoothly under white sails, the palm-fringed beaches and on the outskirts smoke rising from a thousand chimneys in the mill area — a reminder that Bombay is one of the largest industrial cities of the East.

A cosmopolitan city, it owes its prosperity to the industry and enterprise of its population of over five million. Throughout the day, a constant stream of people keeps flowing in and out of its streamlined transport, smart business premises, modern hotels and busy textile factories. In the evening, the centre of attraction is the city's splendid promenade by the sea, the Marine Drive.

The 'Gateway of India', as the entrance to the harbour is known, is the most familiar landmark in the city. The massive edifice, situated on the Apollo Bunder, serves as a place of reception on important ceremonial occasions.

The Fort area is the chief commercial centre. Along the ridges and on the slopes of Cumballa and Malabar Hills are the homes of the well-to-do residents.

Accommodation : Taj Mahal Hotel, Apollo Bunder; Sun-n-Sand, 39, Juhu Beach; Ambassador Hotel, Churchgate Extension; Hotel Nataraj, 135, Netaji Subhas Road; Ritz Hotel, 199, Churchgate Reclamation; West End Hotel, 45, Marine Lines; Shalimar Hotel, Cumballa Hill; Grand Hotel, Ballard Estate; Hotel Bombay International, Marine Drive.

Excursions Around Bombay: About 38·8 km. (15 miles) to the north of the city is Juhu, the palm-fringed natural beach, ideal for bathing. Juhu has good hotels, while shacks and villas along the beach can also be rented. For a quiet swim, Versova and Marve, further up the coast, are recommended. Bombay's picturesque lake district is only an hour's drive from the city.

Some 15 km. (6 miles) across the Bombay harbour, on a small island are the famous cave temples of Elephanta. Five in all, these cave temples date back to the eighth century. The main cave, dedicated to Siva, has huge sculptures and panels in relief. The most striking of the images is the Maheshmurti, a 6 m. (19 ft.) high, three headed bust hewn from a single rock representing the triple aspect of the Hindu Divinity.

There are a number of rock-cut monuments around Bombay. The more well-known among them are the Kanheri group of Buddhist caves and the series of shrines and monasteries known as Karla, Bhaja and Bedsa. Bassein, the sixteenth-century stronghold of the Portuguese, was a flourishing city, as may be gauged from the ruins of churches, convents, manors and fortifications.

Aurangabad : In Maharashtra is where Emperor Aurangzeb built a replica of the Taj, Bibi-ka-Maqbara, a mausoleum for his wife. It has its own splendour and grace quite different than the Taj.

Close to Aurangabad is Daulatabad, "City of Fortune", built in the 14th century by a Sultan of Delhi, who was mad enough to try to move here the whole population of Delhi, which is some 1,813 km. (700 miles) away.

There are a few Buddhist caves near Aurangabad which are worth a visit.

Accommodation : Aurangabad Hotel.

Ajanta-Ellora : An hour and a half's flight from Bombay is Aurangabad, the starting point of a journey to two of the world's famous rock-cut temples — Ajanta and Ellora, the most remarkable monuments of their kind in the world. These monasteries and shrines have been hewn out of living rock by generations of sculptors. Ajanta, 170 km. (66 miles) from Aurangabad, lies in a narrow gorge and contains a breathtaking picture gallery of frescoes. It is believed that these caves were cut in stages between the 2nd century B.C. to about 7th century A.D.

The Ellora caves situated 38·8 km. (15 miles) from Aurangabad are excavated in the face of a hill and run north to south for a mile and a quarter. The crescent-shape hill has Buddhist, Hindu and Jain cave temples with a unique collection of sculptures. These caves are about a thousand years old.

Ahmedabad : Capital of Gujarat; is the second largest textile centre in India. It contains numerous monuments of the fifteenth and sixteenth centuries, amongst them are the Shaking Minarets which are architectural wonders. Mahatma Gandhi's ashram is situated on the banks of the river Sabarmati. A 45 minutes Son-et-Lumiere show brings the ashram alive giving its history and an insight into the life of Mahatma Gandhi.

Accommodation : Cama Hotel, Khanpur Road; Hotel Alankar, Opp. Rly. Station.

Goa : Cradled among the picturesque hills of the western ghats, is the smallest Union Territory in India. Its panoramic beauty, its smiling green valleys and its luxuriant tropical vegetation, its quaint houses and the ruins of old and historic buildings which bring ancient splendour to life, all combine to make it an earthly paradise. Once a Portuguese possession in India, Goa has numerous beautiful beaches, where one can sun-bathe, swim or just laze away in the vast expanse of dazzling white sands fringed with swaying palm trees. Cosy eating places serve the famous Goan curries and excellent wines.

The remnants of the Portuguese civilization can be seen in the old Goa. Among the still surviving ancient Portuguese churches is the Basilica and the Convent of St. Francis Xavier, built in the 16th century, where the body of St. Francis Xavier, patron saint of Goa, is enshrined in an exquisitely carved glass and silver-casket.

Goa is easily reached from Bombay by a 75 minutes flight by the Indian Airlines.

Accommodation : Hotel Mandovi, Panaji; Hotel Zuari, Vasco Da Gama; Tourist Hostel, Panaji.

Game Sanctuary : (*Gir Forest*) Roaming the dry open shrub land of the Gir Forest is a population of about

200 lions and cubs. The Gir is the last remaining habitat of the Asian lion. The best time to see them is from December to May. Wild boar, panther, sambar, blue bull and deer of different varieties also live in this forest along with a number of varied birds. The nearest airport is Keshod, 86·9 km. (54 miles) by road from Sassan Gir. Keshod is connected with Bombay by weekly air service during the season.

TOURIST TRAFFIC

FOREIGN TOURIST ARRIVALS IN INDIA — 1972.

(These statistics relate to foreign tourists excluding nationals of Pakistan.)

A total of 342,950 foreign tourists visited India during 1972 showing an increase of 13·9 per cent over the corresponding figure for 1971 (300,995).

DEVELOPMENT OF TOURISM

The Government of India has set up the India Tourism Development Corporation in the public sector for promoting tourism and providing facilities for tourist traffic in the country. For more details about the corporations see article on "All India Corporations".

Fourth Plan : A sum of Rs. 250 million has been allocated for the development of tourism in the Fourth Plan. Of this Rs. 107·7 million have been set apart for India Tourism Hotel Corporation Schemes and Rs. 50 million for Hotel Development Loan Fund.

The India Tourism Development Corporation has opened duty-free shops at Bombay, Delhi, Calcutta and Madras.

METEOROLOGY

AVERAGE MONTHLY TEMPERATURE °C FOR DIFFERENT STATIONS

Name of Station	Altitude in Metres	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Agra	169	14·8	18·0	23·8	29·7	34·5	35·0	30·9	29·3	28·9	26·2	20·6	16·1
Ahmedabad ..	55	20·3	22·7	27·1	31·3	33·5	32·7	29·5	28·2	28·7	28·4	24·5	21·1
Allahabad ..	98	16·4	19·1	25·1	30·7	34·7	34·3	30·1	29·1	29·0	26·5	21·1	17·1
Bangalore ..	921	20·9	23·1	25·7	27·3	26·9	24·3	23·2	23·3	23·3	23·2	21·7	20·5
Baroda	34	20·5	22·5	26·6	30·8	33·4	32·1	28·9	28·1	28·3	27·5	23·9	21·2
Bombay	11	24·3	24·9	26·9	28·7	30·1	29·1	27·5	27·1	27·4	28·3	27·5	25·9
Calcutta .. ✓ ..	6	20·2	23·0	27·9	30·7	31·1	30·4	29·1	29·1	29·2	27·9	23·9	20·6
Cherrapunji ✓ ..	1313	11·7	13·7	16·7	18·5	19·2	20·1	20·3	20·5	20·5	19·1	15·8	12·9
Darjeeling.. ✓ ..	2127	6·1	7·7	11·3	14·4	15·7	17·0	17·6	17·6	17·3	15·1	11·3	8·1
Dehra Dun ..	682	12·6	14·8	19·4	24·5	28·9	29·5	26·7	26·1	25·5	22·1	17·5	13·9
Delhi	216	14·3	16·9	22·7	28·6	33·5	34·3	31·3	29·9	29·3	25·9	20·3	15·7
Gauhati	55	17·5	19·5	23·3	25·9	26·9	28·1	28·9	29·0	28·7	26·3	22·3	18·7
Hyderabad ..	545	21·6	23·9	27·4	30·3	32·5	29·1	26·1	25·8	25·7	25·1	22·3	20·6
Indore	567	17·9	19·9	24·5	29·1	32·3	30·1	26·1	25·1	25·1	24·1	20·5	18·3
Jaipur	390	15·1	18·1	23·2	28·7	33·2	33·3	29·9	28·1	28·1	25·7	20·5	16·7
✓Jammu	366	13·3	15·8	20·6	26·8	32·4	34·1	30·7	29·1	28·6	25·4	19·8	15·2
Jamshedpur ..	129	19·3	21·7	26·7	31·2	33·4	31·7	28·9	28·7	28·7	26·9	22·3	19·2
Kangra		Not available											
Kodaikanal ..	2343	12·5	13·3	14·6	15·7	16·5	15·4	14·3	14·5	14·5	13·9	12·9	12·5
Lucknow	111	16·1	18·9	24·6	30·1	33·9	33·7	30·1	29·3	29·1	26·3	21·0	16·9
Madras	16	24·5	25·9	27·9	30·5	32·7	32·5	30·7	30·1	29·7	28·1	25·9	24·6
Mahableshwar ..	1382	18·9	20·5	23·1	24·1	23·5	19·4	17·9	17·6	18·0	20·1	19·5	18·7
Matheran		Not available											
Mussoorie ..	2042	6·3	7·8	11·7	16·5	19·9	20·3	18·3	17·9	17·1	14·9	11·6	8·5
Mysore	767	22·3	24·7	26·9	27·7	26·9	24·5	23·5	23·7	24·0	24·0	22·9	21·7
Ootacamund ..	2249	12·5	13·5	15·1	16·1	16·5	14·5	13·7	14·1	14·3	14·3	13·6	13·0
Panaji	57	25·5	24·3	27·5	29·0	29·8	27·5	26·4	26·5	26·5	27·3	27·6	26·8
Patna	53	17·3	19·9	25·7	30·5	32·5	31·9	29·8	29·3	29·3	27·5	22·5	18·3
Poona	559	21·3	23·1	26·5	29·3	29·9	27·5	24·9	24·6	25·0	25·5	22·9	21·1
Ranikhet		Not available											
Shillong	1500	9·5	11·7	16·0	18·9	19·6	20·5	21·1	20·9	20·1	17·3	13·3	10·5
Simla	2202	5·2	6·7	10·6	15·2	19·2	20·3	18·3	17·7	16·9	14·3	11·1	7·7
✓Srinagar	1586	1·1	3·5	8·5	13·3	17·9	21·7	24·6	23·9	20·5	14·1	7·7	3·5
Trivandrum ..	64	26·8	27·3	28·3	28·7	28·3	26·5	26·1	26·3	26·6	26·7	26·6	26·7
Udaipur	582	16·0	18·7	23·7	28·1	31·7	30·6	27·3	26·1	26·5	25·5	20·1	17·3
Varanasi	76	16·5	19·3	25·3	30·5	34·3	33·7	30·0	29·1	29·1	26·6	21·0	17·1

AVERAGE MONTHLY RAINFALL (MILLIMETRES) FOR DIFFERENT STATIONS

Name of Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Agra	16·2	8·8	10·9	5·3	10·0	60·0	210·2	263·2	151·5	23·5	2·1	3·7
Ahmedabad	3·9	0·3	0·9	1·9	4·5	100·0	316·3	213·3	162·8	13·1	5·4	0·7
Allahabad	20·2	22·2	14·3	4·8	8·2	101·7	274·8	333·1	195·1	39·7	6·9	6·3
Bangalore	3·3	10·2	6·1	45·7	116·5	80·1	116·6	147·1	142·7	184·9	54·3	16·2
Baroda	2·0	2·4	0·7	2·9	4·1	114·8	365·8	263·5	185·5	34·5	9·0	0·2
Bombay	2·0	1·1	0·4	2·8	16·0	520·3	709·5	439·3	297·0	88·0	20·6	2·2
Calcutta ✓	13·8	24·2	26·5	42·7	120·6	259·1	300·6	306·3	289·7	160·2	34·9	3·2
Cherrapunji ✓	19·8	37·3	178·9	605·2	1705·1	2921·5	2456·7	1827·5	1167·7	447·4	46·7	4·9
Darjeeling ✓	21·7	26·7	52·4	109·0	187·1	522·3	712·9	572·5	418·5	116·1	14·2	5·0
Dehra Dun	62·2	59·4	39·7	17·4	41·7	185·9	720·8	764·9	326·7	70·8	5·1	19·1
Delhi	24·9	21·8	16·5	6·8	7·9	65·0	211·1	172·9	149·7	31·2	1·2	5·2
Gauhati	11·4	18·3	53·4	125·9	273·6	293·4	301·5	263·0	190·1	90·1	11·5	5·0
Hyderabad	1·7	11·4	13·4	24·1	30·0	107·4	165·0	146·9	163·3	70·8	24·9	5·5
Indore	8·4	1·1	3·5	3·5	13·2	147·1	316·0	266·5	220·9	48·4	22·1	2·7
Jaipur	14·0	8·4	8·6	4·2	10·0	54·0	193·2	239·0	89·8	19·3	3·4	4·2
✓ Jammu	71·3	59·4	57·0	25·2	17·0	60·9	320·7	319·1	150·8	29·5	7·9	29·5
Jamshedpur	14·1	28·3	23·8	25·4	68·8	217·5	347·2	356·1	215·4	76·2	16·7	1·8
Kangra	78·5	73·1	70·6	36·6	39·9	108·2	578·4	692·7	218·4	19·1	8·1	37·1
Kodaikanal	62·7	31·6	64·3	166·1	157·4	103·8	117·4	162·8	160·5	250·3	274·0	121·2
Lucknow	23·7	17·2	9·2	6·4	11·7	93·9	299·0	301·8	181·7	40·3	1·4	6·1
Madras	23·8	6·8	15·1	24·7	51·7	52·6	83·5	124·3	118·0	267·0	308·7	139·1
Mahableshwar	3·1	1·8	6·8	29·6	55·4	898·3	2521·3	1714·7	709·2	179·3	56·7	6·1
Matheran	2·0	1·5	2·3	4·1	25·1	773·9	2035·6	1461·0	658·6	168·1	31·5	3·8
Mussoorie	66·4	66·9	63·5	29·5	45·1	188·5	726·5	754·7	323·2	64·8	7·7	31·3
Mysore	2·8	5·5	12·0	67·6	156·9	60·5	71·9	80·1	116·3	179·9	66·6	14·7
Ootacamund	25·8	12·0	29·5	108·5	172·6	139·2	176·6	128·2	109·7	213·3	126·5	59·1
Panaji	2·3	0	4·2	16·9	17·6	580·1	892·1	341·1	276·6	122·3	20·4	37·5
Patna	21·1	20·2	6·7	8·2	28·3	139·0	265·8	307·1	242·5	62·8	5·7	2·4
Poona	1·9	0·3	3·1	17·6	34·7	102·8	186·8	106·4	127·3	91·9	37·0	4·9
Ranikhet	54·1	62·0	46·2	31·0	50·0	144·0	331·5	344·4	165·9	33·5	7·4	22·9
Shillong	15·2	28·5	59·4	136·4	325·4	544·6	394·9	334·6	314·9	220·2	34·9	6·3
Simla	65·2	47·6	58·1	37·6	53·7	147·5	414·5	385·4	195·2	45·4	6·7	23·7
✓ Srinagar	72·8	72·3	104·1	78·1	63·4	35·6	61·0	62·8	31·8	28·7	17·5	35·9
Trivandrum	20·1	20·3	43·5	122·1	248·6	331·2	215·4	164·0	122·9	271·2	206·9	73·1
Udaipur	9·0	4·4	3·5	2·6	4·6	87·0	197·3	206·9	120·4	16·1	5·7	2·5
Varanasi	25·0	21·9	11·9	3·9	12·3	91·9	306·2	342·2	225·7	59·5	9·6	3·3

Statement of sub-divisional means of rainfall in millimetres during 1971 and 1972

Sub-Divisions	1971 — June to September				1972 — June to September			
	Actual	Normal	Departure from normal	Percentage departure from normal	Actual	Normal	Departure from normal	Percentage departure from normal
Bay Islands	1,421	1,628	— 208	— 13	1,657	1,630	+ 28	+ 2
Arunachal Pradesh	..	..	..	..	2,532	3,122	— 590	— 19
Assam & Meghalaya	1,411	1,604	— 193	— 12	1,343	1,477	— 134	— 9
Nagaland, Manipur, Mizoram and Tripura	1,348	1,483	— 136	— 9	913	1,283	— 370	— 29
Sub-Himalayan West Bengal ..	1,805	2,060	— 255	— 12	1,452	2,060	— 608	— 30
Gangetic West Bengal	1,578	1,114	+ 464	+ 42	1,093	1,129	— 36	— 3
Orissa	1,129	1,172	— 44	— 4	1,168	1,172	— 4	0
Bihar Plateau	1,549	1,104	+ 445	+ 40	932	1,105	— 173	— 16
Bihar Plains	1,199	1,054	+ 145	+ 14	687	1,070	— 383	— 36
Uttar Pradesh, East	1,257	958	+ 299	+ 31	667	967	— 300	— 31
Uttar Pradesh, West	938	785	+ 153	+ 20	631	787	— 157	— 20
Hills of West Uttar Pradesh† ..	1,873	1,745	+ 129	+ 7	1,341	1,407	— 66	— 5
Haryana (including Delhi) ..	760	603	+ 157	+ 26	616	601	+ 15	+ 2
Punjab	551	493	+ 58	+ 12	427	492	— 65	— 13
Himachal Pradesh	1,850	1,153	+ 697	+ 60	974	1,348	— 374	— 28
Jammu and Kashmir	210	282	— 73	— 26	250	355	— 106	— 30
Rajasthan, West	178	260	— 81	— 31	187	261	— 74	— 28
Rajasthan, East	778	635	+ 143	+ 23	378	640	— 262	— 41
Madhya Pradesh, West ..	1,040	976	+ 65	+ 7	760	976	— 216	— 22
Madhya Pradesh, East ..	1,318	1,235	+ 83	+ 7	1,075	1,230	— 155	— 13
Gujarat Region (including Daman, Dadra and N. Haveli)	746	834	— 88	— 11	499	838	— 339	— 40
Saurashtra and Kutch (including Diu)	555	549	+ 5	+ 1	258	552	— 293	— 53
Konkan (including Goa) ..	2,067	2,227	— 161	— 7	1,691	2,154	— 463	— 22
Madhya Maharashtra	413	525	— 112	— 21	273	511	— 238	— 47
Marathwada	509	653	— 144	— 22	355	653	— 297	— 46
Vidarbha	673	947	— 273	— 29	594	959	— 365	— 38
Coastal Andhra Pradesh ..	455	557	— 101	— 18	404	537	— 133	— 25
Telengana	459	784	— 325	— 41	482	766	— 284	— 37
Rayalaseema	278	393	— 116	— 29	266	392	— 126	— 32
Tamil Nadu (including Pondicherry) ..	291	269	+ 22	+ 8	279	254	+ 25	+ 10
Coastal Mysore	3,048	2,959	+ 89	+ 3	2,285	2,995	— 710	— 24
Interior Mysore, North ..	494	583	— 89	— 15	508	575	— 66	— 12
Interior Mysore, South ..	514	426	+ 88	+ 21	398	420	— 22	— 5
Kerala	2,052	1,663	+ 388	+ 23	1,344	1,616	— 273	— 17
Arabian Sea Island	1,188	983	+ 205	+ 21	877	991	— 114	— 11

Note:—For **calculation of excess and defects and their percentages rainfall figures are taken correct to 0·1 mm.**

† The new sub-division "Hills of West Uttar Pradesh", was formed with effect from 1-1-1971.

MINES AND MINERALS

THE total value of mineral production in India during 1971 was Rs. 4,422 million as against Rs. 4,485 million in the previous year. Fuels (coal, lignite, petroleum & natural gas) constituting the leading group accounted for Rs. 3,390 million or 77 per cent of the total value of mineral production during 1971. The share of metallic minerals was Rs. 659 million and that of non-metallic minerals Rs. 375 million accounting for 15 and 8 per cent respectively.

In terms of value of output during 1971 next to coal and lignite (Rs. 2,596 million) and petroleum (Rs. 757 million) were iron ore (Rs. 389 million), limestone (Rs. 213 million), manganese ore (Rs. 77 million), gold (Rs. 76 million), copper ore (Rs. 53 million), mica (Rs. 18 million), dolomite (Rs. 23 million), kyanite (Rs. 19 million), chromite (Rs. 21 million) and phosphorite (Rs. 20 million).

The quantity index of mineral production (base 1960—100) stood at 179 during 1971 remaining steady compared to previous year. Fuel (coal, lignite, petroleum (crude) and natural gas) mining constitutes as much as 78·2 per cent of the overall mining activity in the country followed by metal mining with 13·7 per cent and non-metallic mining 8·1 per cent. The index of coal mining registered 142 in 1971 in comparison with 149 in 1970. Metallic mining index during 1971 was 156 as against 145 in the previous year. The index of non-metallic mining registered 229 in 1971 compared with 212 in 1970.

STATE-WISE ANALYSIS

Bihar occupied the leading position accounting for 29 per cent of the total value of mineral production in 1971 followed by Madhya Pradesh and West Bengal each with 14 per cent. The supremacy of these states is primarily due to the fact that these are the principal producers of coal in India accounting respectively for 45 per cent, 24 per cent and 18 per cent of the all-India output during 1971.

The value of mineral production* (Rs. '000) in each state for 1971 is as follows :

Bihar	1,275,967
West Bengal	629,194
Madhya Pradesh	633,791
Gujarat	435,362
Assam	404,837
Orissa	230,536
Andhra Pradesh	199,421
Mysore	132,838
Tamil Nadu	135,268
Goa	119,596
Maharashtra	121,760
Rajasthan	78,498
Uttar Pradesh	10,530
Haryana	5,733
Kerala	5,186
J & K	2,186
Himachal Pradesh	825
Delhi	427
Punjab	—

EXPORTS

The foreign exchange earned by exports of minerals and metals from India totalled Rs. 2,562 million during 1971 compared to Rs. 3,232 million in the preceding year registering a fall of 21 per cent mainly due to lower exports of iron-ore, manganese ore, kyanite, chromite, iron & steel, pig and cast iron and ferro-alloys. The share of minerals and metals in the foreign exchange earnings resulting from exports formed 16·3 per cent (minerals 12 per cent and metals 4·3 per cent) of the total merchandize as compared to 21·4 per cent (minerals 13·4 per cent and metals 8·0 per cent) in 1970.

The foreign exchange earned through the exports of ores and minerals by India during 1971 totalled Rs. 1,886 million as against Rs. 2,032 million during 1970 registering a fall of 7 per cent.

Iron ore maintained its position as the leading commodity accounting for Rs. 1,028 million or 55 per cent of the total value of mineral exports during 1971 followed by diamond of gem variety Rs. 332 million or 18 per cent, mica Rs. 175 million or 9 per cent, precious and semi-precious stones Rs. 121 million or 6 per cent, manganese ore Rs. 118 million or 6 per cent and kyanite, chromite and coal Rs. 20 million, Rs. 16 million and Rs. 15 million respectively or 1 per cent each.

The export of manganese ore during 1971 decreased by 23 per cent, kyanite by 38 per cent, chromite by 52 per cent, during 1971 compared to 1970. The exports of iron ore registered a fall of 9 per cent to 19,355,000 tonnes during 1971 as compared to the preceding year. The export of barytes rose to 36,995 tonnes in 1971 from 20,484 tonnes in 1970. The total value of export of metals during 1971 was considerably lower at Rs. 676 million compared to Rs. 1,200 million in 1970 showing a fall of 44 per cent. Iron & steel accounted for Rs. 390 million or about 58 per cent of the total of metals and alloys exported during 1971 followed by pig and cast iron Rs. 130 million or 19 per cent, copper Rs. 60 million or about 9 per cent, ferro-alloys Rs. 49 million or 7 per cent and aluminium Rs. 42 million or 6 per cent.

The value of exports of iron & steel, pig and cast iron decreased to Rs. 390 million and Rs. 130 million respectively in 1971 as compared to Rs. 702 million and Rs. 250 million during 1970. The exports of ferro-alloys also decreased from Rs. 117 million in 1970 to Rs. 49 million in 1971. Amongst the non-ferrous metals, the exports of aluminium declined from Rs. 64 million to Rs. 42 million while the exports of copper remained almost static at Rs. 60 million during 1971.

IMPORTS

Foreign exchange spent on the imports of minerals into India during 1971 totalled Rs. 2,112 million as compared to Rs. 1,705 million during 1970 registering an increase of 24 per cent. Petroleum (crude) accounted for Rs. 1,399 million or 66 per cent of the total value of imports of mineral during 1971 followed by diamond of gem variety Rs. 210 million or 10 per cent, rock phosphate Rs. 115 million or 5 per cent, sulphur Rs. 107 million or 5 per cent, asbestos Rs. 79 million or about 4 per cent and emerald and zinc ore and concentrates Rs. 40 million and Rs. 39 million respectively or 2 per cent each. The imports of petroleum (crude) were higher at 12·7 million tonnes during 1971 as against 11·7 million tonnes in the preceding year.

The imports of sulphur and zinc ore and concentrates decreased from 521,423 tonnes and 48,901 tonnes in 1970 to 461,904 tonnes and 45,862 tonnes respectively in 1971. The imports of borax (borate) decreased considerably to 9,568 tonnes during 1971 as compared to 18,654 tonnes during 1970 while the imports of rock-phosphate increased from 667,657 tonnes in 1970 to 813,261 tonnes in 1971. The imports of asbestos rose from 89,766 tonnes in 1970 to 45,715 tonnes in 1971.

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* Exclude the value of atomic minerals and minor minerals.

The value of imports of metals and alloys increased by 43 per cent to Rs. 3,461 million in 1971 due to substantial increase in the imports of iron and steel by 78 per cent or from Rs. 1,251 million during 1970 to Rs. 2,224 million during 1971. The imports of aluminium also registered a sharp rise from Rs. 23 million in 1970 to Rs. 102 million in 1971. Iron & steel accounted for Rs. 2,224 million or 64 per cent of the total value of imports of metal and alloys followed by copper (Rs. 550 million) or 16 per cent, zinc (Rs. 224 million) or about 7 per cent, nickel (Rs. 93 million) or about 3 per cent, tin (Rs 86 million) or 2 per cent, lead (Rs.82 million) or 2 per cent and ferro-alloys (Rs.32 million) or 1 per cent. The value of import of zinc increased by Rs. 52 million while that of copper and nickel decreased by Rs. 74 million and Rs. 10 million respectively during 1971 compared to 1970.

MINERAL FUELS

Coal & Lignite: The most important coal fields are Raniganj in West Bengal and Jharia and Bokaro in Bihar. The best coking coal comes from Giridih, Jharia and Raniganj. Other States in which coal is found are Madhya Pradesh, Orissa, Andhra Pradesh, Tamil Nadu, Maharashtra, Assam, Rajasthan and Kashmir.

The total all-India proved, indicated and inferred reserves of all types of coal stand at 94,000 million tonnes with seams of 0·45 metres and above in thickness down to a depth of 609 metres from the surface. The reserve of coking coal is placed at 24,613 million tonnes.

The output of coal in million tonnes; **1967** (68·2); **1968** (70·8); **1969** (75·4); **1970** (73·7) and **1971** (70·1).

The value of production of coal during 1971 was Rs. 2,517 million.

The output of lignite in million tonnes: **1967** (2·9); **1968** (4·1); **1969** (4·2); **1970** (3·5) and **1971** (3·7).

The value of production of lignite during 1971 was Rs. 103 million. There was a sharp decrease in the export of coke during 1971 which totalled 19,287 tonnes valued at Rs. 1·9 million relative to 124,917 tonnes valued at Rs. 15·1 million in 1970. Coke exports to Burma which emerged as the chief buyer during 1971 amounted to 14,333 tonnes valued at Rs. 1,460,000. This was followed by Japan with 4,532 tonnes valued at Rs. 4,20,000 and coal exports showed a decrease from 393,000 tonnes valued at Rs. 25·39 million in 1970 to 266,000 tonnes valued at Rs. 15·17 million in 1971.

The "Integrated Neyveli Lignite-Project" at Neyveli, S. Arcot district of Tamil Nadu, is planned to increase the mine output to 6/6·3 million tonnes per annum. During 1971, 3·7 million tonnes of lignite was mined in Neyveli.

Lignite also occurs at Palana and Khari in Bikaner district, Rajasthan; Nichahom in Jammu & Kashmir; Kutch and Broach districts in Gujarat.

METALLIC MINERALS FERROUS GROUP

Chromite: is an important strategic mineral of which India has moderate supplies.

The chief deposits of chromite ore are in Cuttack and Keonjhar districts of Orissa; Bhandara and Ratnagiri districts of Maharashtra, Singhbhum districts of Bihar, Mysore and Hassan districts of Mysore; Krishna district of Andhra Pradesh and Salem district of Tamil Nadu.

Production and exports respectively in '000 tonnes of chromite: **1967** (114, 77); **1968** (206, 109); **1969** (227, 112); **1970** (274, 153) and **1971** (273, 74).

Production of ferro-chrome during 1971 was 11,029 tonnes as against 13,364 tonnes in 1970.

Iron ore: The production of iron ore during 1971 totalled 33·9 million tonnes (including Goa) as against 31·3 million tonnes in the previous year.

India is one among the few countries endowed with large reserves of good quality iron ores which can meet the growing demands of the indigenous iron and steel industry and also sustain considerable export trade.

The production from Goa during 1971 was 10·6 million tonnes as against 9·1 million tonnes during 1970. During the same year Madhya Pradesh produced 7·6 million tonnes, Orissa 6·6 million tonnes and Bihar 4·3 million tonnes.

Among the minerals exported from India, iron ore is the largest foreign exchange earner contributing 55 per cent of the total value of mineral export during 1971. Japan continued to be the leading buyer of Indian iron ore accounting for 82·5 per cent of the total exports in 1971 from India. The quantity of iron ore exported in 1971 was 19·4 million tonnes valued at Rs. 1,028 million as compared with 21·2 million tonnes valued at Rs. 1,187 million in 1970.

Production of iron ore (including Goa) in thousand tonnes and value in thousand rupees respectively: **1968** (27,961; 285,752); **1969** (29,567; 324,320); **1970** (31,366; 368,005) and **1971** (33,930; 392,954).

Export trade of iron ore in thousand tonnes and value in thousand rupees respectively are: **1968** (15,635; 864,910); **1969** (15,118; 879,709); **1970** (21,236; 1,187,236) and **1971** (19,355; 1,027,931).

Manganese ore: Extensive deposits of manganese occur in Madhya Pradesh, Maharashtra, Orissa, Andhra Pradesh, Mysore, Bihar and Rajasthan.

The total reserves of manganese ore in the country according to the latest estimates made, are placed at about 108 million tonnes including Goa. It is estimated that the deposits in the main belt of Nagpur and Bhandara in Maharashtra and Balaghat in Madhya Pradesh alone contain reserves of the order of 42 million tonnes. A major part of the output is exported at present.

Yearly output and exports respectively of manganese ore in thousand tonnes: **1968** (1,610; 1,189); **1969** (1,485; 1,208); **1970** (1,673; 1,614); **1971** (1,803; 1,245).

The exports of manganese ore is canalised through the Minerals and Metal Trading Corporation of India Ltd. The Manganese Ore India Ltd. is also allowed to export the ores produced by it or acquired by it in the course of its normal business operation.

There is only one ferro-manganese plant under public sector at Bhadravati in Mysore State, and six in the private sector, two each in Maharashtra and Orissa and one each in Andhra Pradesh and Mysore.

During 1971, the total production of ferro-manganese was 163,902 tonnes as against 175,612 tonnes in 1970. The export of ferro-manganese during 1971 was 38,505 tonnes, valued at Rs. 39·5 million as against 91,756 tonnes valued at Rs. 85·9 million.

NON-FERROUS GROUP

Bauxite: India is self-sufficient in respect of bauxite which is the chief raw material for aluminium metal. A sizeable quantity also finds outlet in export market after meeting the indigenous requirements. The all India reserves of bauxite of all grades are placed at 227 million tonnes.

The important deposits of bauxite occur in Palamau and Ranchi districts of Bihar; Surguja, Shahadol districts of M.P.; Salem, Madurai and Nilgiris districts of Tamil

Nadu; Kolhapur, Ratnagiri and Kolaba districts of Maharashtra; Saurashtra, Kutch and Surat districts of Gujarat; Belgaum, North and South Kanara districts of Mysore; Kalahandi, Sambalpur districts of Orissa and Poonch, Riasi and Udhampur districts of Jammu & Kashmir.

Yearly production and export of bauxite in thousand tonnes are: **1968** (961; 99); **1969** (1,085; 126); **1970** (1,370; 119); **1971** (1,496; 36).

During 1971, six aluminium smelters, all in the private sector with a total installed capacity of 167,500 tonnes per annum, located one each at Hirakud (Orissa); Alwaye (Kerala); Belgaum (Mysore); Renukoot (U.P.); Mettur (Tamil Nadu) and Jayakanagar (West Bengal) produced a total of 178,179 tonnes of aluminium metal. Setting up of two units, under public sector one each at Koyna, Maharashtra (50,000 tonnes capacity) and Korba, Madhya Pradesh (100,000 tonnes capacity) are under progress.

Copper : In India at present Indian Copper Corporation Ltd. is the sole producer of copper ore and metal at Ghatsila, Bihar.

Extensive investigations are being carried out in Singhbhum copper belt of Bihar; Khetri belt and Bhagoni area of Rajasthan; Malajkhand of Madhya Pradesh, etc.

The integrated mine and plant at Khetri under the "Khetri Copper Complex" which is under construction will have a capacity of 31,000 tonnes of electric copper metal annually. Besides 600 tonnes of sulphuric acid will be produced as a by-product which will be utilised for the production of about 200,000 tonnes of triple super phosphate per annum.

The production of refined copper was 9,554 tonnes in 1971 and 9,311 tonnes in 1970. This meets about 16 per cent of the copper requirements of the country.

Copper import in tonnes and value in '000 rupees respectively: **1968** (36,429; 326,203); **1969** (48,402; 449,088); **1970** (50,970; 624,391); **1971** (59,017; 549,593).

Regular production at Khetri mines, was expected to start by end of 1972, at the rate of 2,000 tonnes per day.

Lead & zinc : Investigation for lead-zinc were being carried out in Zawar belt of Udaipur district, Ambamata belt in Gujarat and Lokdega-Sargipalli of Orissa.

Zawar is the only area producing lead and zinc ores. During 1971, 4,262 tonnes of lead concentrates and 15,865 tonnes of zinc concentrates were produced from Zawar mines in Udaipur district, Rajasthan.

There are at present two zinc smelters, one at Debari in Rajasthan and the other at Alwaye, Kerala. The zinc smelter at Debari, has an annual installed capacity of 18,000 tonnes of zinc metal and 29,464 tonnes of sulphuric acid (to be converted in turn into 75,000 tonnes later on) and 75 tonnes of cadmium metal.

Another firm *viz.* Cominco Binani Ltd. at Alwaye, Kerala based on imported concentrates, has annual installed capacity of 20,000 tonnes of zinc metal, 48,000 tonnes of sulphuric acid, and 36 tonnes of cadmium metal.

During 1971, the production of zinc metal and cadmium metal was 21,248 tonnes and 31 tonnes respectively.

The production of refined lead during 1971, was 1,539 tonnes as against 1,861 tonnes in 1970 from the Tundoo smelter, Bihar. The present installed capacity of the plant is 6,000 tonnes per annum.

NON-METALLIC MINERALS

Apatite and rock phosphate : These constitute the principal raw material for production of commercial phosphatic fertilisers. Requirements of rock phosphate were entirely met by imports till 1968. In view of their short supply, intensive exploratory programme for the search of phosphate minerals were launched upon by the Govt. and as a result several workable deposits of phosphorites were discovered in Rajasthan, Uttar Pradesh and Himachal Pradesh. Already production of phosphorite has commenced at Jhamar-Kotra in Udaipur district of Rajasthan and Maldeota in Dehra Dun district of Uttar Pradesh. The production of phosphorite totalled 232,089 tonnes during 1971.

Yearly import of phosphate **1968 :** 860,625 tonnes; **1969 :** 661,747 tonnes; **1970 :** 667,657 tonnes; **1971 :** 813,261 tonnes.

Asbestos : Naturally occurring fibrous minerals are called 'asbestos'. The commercial varieties fall into two groups *viz.* the serpentine group found extensively in the serpentine rocks and is commonly called chrysotile variety and the other amphibole group comprised tremolite, actinolite, anthophyllite, crocidolite and amosite varieties. The chrysotile variety is the most important one from the industrial point of view and is mainly limited to Pulivendla taluk of Cuddapah district of Andhra Pradesh.

The bulk of the asbestos requirements of the country is met by imports on account of inadequate domestic production. The trend in the production and imports of asbestos for the last four years is shown in the table below:

(In tonnes)

Year	Output	Imports
1968	9,187	25,924
1969	9,876	33,609
1970	10,056	39,766
1971	11,118	45,715

In all there were 9 asbestos cement manufacturing units in 1971 with a total licenced capacity of 561,000 tonnes per annum, against which the production was 390,118 tonnes.

Gypsum : deposits are mainly found in Jodhpur, Bikaner, Nagaur and Jaisalmer districts of Rajasthan; Tiruchirapalli and Coimbatore districts of Tamil Nadu and Doda and Baramulla districts of Jammu & Kashmir.

The total inferred reserves are placed at 1,235 million tonnes, Rajasthan accounts for more than 90 per cent of the Indian reserves.

Smaller deposits also occur in Halar, Bhavnagar-Porbandar and Kutch districts of Gujarat; Nellore district of Andhra Pradesh; Tehri Garhwal district of Uttar Pradesh and Sirmur district of Himachal Pradesh.

Production of gypsum in thousand tonnes **1968 :** 1,338; **1969 :** 1,391; **1970 :** 921; **1971 :** 1,083.

Kyanite and sillimanite : are the important refractory minerals having the same chemical composition (Al_2O_3 : SiO_2). India has the richest deposits of kyanite and sillimanite in the world. Kyanite deposits are located at Lapsaburu, Kharswan in Singhbhum district, Bihar and sillimanite deposits at Sonapahar in Khasi Hills, Meghalaya. The Indian sillimanite can be used as a refractory without calcination since it shows very little expansion. India occupies important position both as a producer and an exporter of kyanite and sillimanite.

The trend of their output and exports for the last four years are shown in the following table :

(In tonnes)

Year	Kyanite		Sillimanite	
	Output	Export	Output	Export
1968 ..	64,361	50,465	4,657	2,514
1969 ..	84,172	45,641	3,946	2,101
1970 ..	119,126	69,331	4,565	1,628
1971 ..	62,958	42,821	4,827	1,628

Limestone : is one of the most important industrial minerals required in the manufacture of cement, iron and steel, ferro-alloys, chemicals (for soda ash, caustic soda, bleaching powder, calcium carbide etc.) fertiliser (calcium ammonium nitrate) and lime.

From the present knowledge of reserves of various limestone deposits, it is apparent that sufficient resources of flux and cement grade limestone are available.

The production of limestone in thousand tonnes and value in thousand rupees respectively : **1968** (21,030 ; 184,350) ; **1969** (22,517 ; 211,930) ; **1970** (23,801 ; 230,231) ; **1971** (25,020 ; 214,253).

Magnesite : Large deposits of magnesite used in the manufacture of magnesium salt, metallic magnesium and refractory bricks are known to occur in Salem (Tamil Nadu), Hassan, Coorg, and Mysore (Mysore); Almora (U.P.), small deposits are known in Dungarpur (Rajasthan) and Singhbhum (Bihar). The chief producing centres are Salem and Mysore districts.

Major part of the output is used in the manufacture of refractory bricks for steel works and some quantity is exported.

Production and export (in tonnes) respectively : **1968** (253,073 ; 22,309) ; **1969** (297,893 ; 25,922) ; **1970** (354,291 ; 34,154) ; **1971** (296,584 ; 23,642).

Mica : is treated as a strategic mineral and India accounts for a big slice of the world trade in it.

The principal mica deposits are concentrated in Bihar, Rajasthan and Andhra Pradesh. During 1971, Bihar accounted for 54 per cent of the all India output, followed by Andhra Pradesh 29 per cent and Rajasthan with 16 per cent.

There are three mica insulation bricks manufacturing units, one each in Rajasthan, Bihar and Andhra Pradesh, utilizing scrap or mica waste. There is also one major unit manufacturing different types of micanite in Bihar.

The production of crude mica and export of processed mica (unmanufactured) respectively in tonnes are :**1968 :** (18,265 ; 19,928) ; **1969:** (18,508 ; 17,480) ; **1970 :** (16,458 ; 23,592) ; **1971** (14,468 ; 21,582).

Sulphur : The mineral pyrites is one source of sulphur. It is found in Amjhore (Bihar) ; Ingaldhal, Kaiga (Mysore) ; Taradevi (Simla) ; Lashtial (Kashmir) ; Saladipura area (Rajasthan) and Polur (Tamil Nadu) of which Amjhore and Ingaldhal deposits are of economic importance.

The Pyrites and Phosphates and Chemicals Ltd. has been set up to exploit pyrites for production of sulphuric acid and other related products. The company continued implementation of two projects viz. (1) Mining of 0·24 million tonnes of pyrites per annum at Amjhore ; (2) production oriented exploratory mining pyrite project, Saladipura, Rajasthan. The Sindri acid plant of Fertiliser Corporation of India was commissioned in the first quarter of 1970. The country's requirements of sulphur are met from imports.

Yearly imports of sulphur in tonnes are : **1968** : 390,390 ; **1969** : 294,231 ; **1970** : 521,343 ; **1971** : 461,507.

Besides being self-sufficient, India exports a sizeable quantity of salt. India exported 0·319 million tonnes in 1971 as against 0·479 million tonnes in 1970. The production of salt in 1971 was 5·4 million tonnes.

The average number of labourers employed per day in the salt industry in 1971 was 38,498 as against 35,341 in 1970.

Iodised Salt : The total quantity of iodised salt produced at Sambhar during 1971 was 33,982 tonnes and it was distributed as follows :—

1. Himachal Pradesh 9,461·0 tonnes ; 2. Bihar (Champaran Dist.) 1,547·5 tonnes ; 3. Chandigarh 1,478·5 tonnes ; 4. Haryana (Ambala Dist.) 3,400·0 tonnes ; 5. Punjab (Rupar, Hoshiarpur & Gurdaspur districts) 5,807·0 tonnes ; 6. Uttar Pradesh (7 districts) 10,899·0 tonnes ; Total 32,593·0 tonnes.

The production of iodised salt at Kharagoda during 1971 was 30,134 tonnes and it was distributed as follows :—

1. Jammu & Kashmir 534 tonnes ; 2. Bihar (Champaran Dist.) 19,088 tonnes ; 3. U.P. (Bijnor & Dehradun Dist.) 10,346 tonnes ; Defence Services 18 tonnes ; Total 29,986 tonnes.

The production of iodised salt at Calcutta during 1971 was 8,245 tonnes and its distribution was as follows :—

1. Arunachal Pradesh 1,035·0 tonnes ; 2. Manipur 1,890·5 tonnes ; 3. Nagaland 3,532·5 tonnes ; West Bengal (Darjeeling Dist.) 922·5 tonnes ; and Bhutan 2·3 tonnes. Total 7,382·3 tonnes.

The following quantities of important bye-products were recovered during 1970 and 1971.

(Figures in Tonnes)

Year	Gypsum	Magnesium Sulphate	Magnesium Chloride	Sodium Sulphate
1970 ..	86,793	77	5,517	1,425
1971 ..	111,996	20	5,370	3,662

(Source : Salt Commissioner, P. Box 139, Jaipur).

Rare Minerals : Investigations carried out by the Department of Atomic Energy have revealed a number of radioactive mineral deposits in India.

The beach sands of Kerala and Tamil Nadu contain a very useful radioactive mineral-monazite. The Indian monazites consist of 8 to 10 per cent of thoria, 0·3 to 0·4 per cent of uranium oxide, 28 per cent of phosphate and 60 to 65 per cent of rare earth oxides. Thorium can be converted into an important atomic fuel of the future. The total reserves of rare earth oxides in the beach sands have been estimated at approximately one million tonnes.

Ilmenite is also recovered from the beach sands of Kerala State, contributing nearly 90 per cent of the total production, and the Manavalakurichi area in Tamil Nadu. It is now mainly exported to Japan. The present estimated resources of ilmenite in the country are placed at 100 to 150 million tonnes. The production of ilmenite during the financial year 1971-72 was 157,409 tonnes.

India's present overall indicated and inferred reserves of uranium are estimated at about 76,000 tonnes, and of thorium at 500,000 tonnes.

Uranium bearing ores have been discovered in the Singhbhum Thrust Belt of Bihar, and in the Himalayan regions of Himachal Pradesh and Uttar Pradesh. The uranium mine at Jaduguda in the Singhbhum district, worked by the Uranium Corporation of India Ltd., a Govt. of India undertaking, treats about 1,000 tonnes of ore per day in the uranium mill.

It has been estimated that the resources of uranium in India can support about 5 to 10 million KWs of electricity generating capacity.

PRODUCTION AND VALUE OF MINERALS

Mineral	Unit	Production			
		1970		1971	
		Quantity	Value (Rs. '000)	Quantity	Value (Rs. '000)
1	2	3	4	5	6
All Minerals			4,484,654		4,421,955
Fuels			3,487,118		3,389,990
Coal	'000 tonnes	73,698	2,629,708	69,602	2,503,209
Lignite	,,	3,545	89,856	3,660	92,769
Natural gas@	Million cubic metres	676	32,154	753	37,162
Petroleum (crude)	'000 tonnes	6,809	735,400	7,190	756,850
Metallic minerals			612,963		658,925
Bauxite	'000 tonnes	1,370	17,463	1,487	18,069
Chromite	Tonnes	273,679	15,693	273,135	20,520
Copper ore	'000 tonnes	518	44,195	666	53,035
Diaspore	Tonnes	6,172	560	4,583	460
Gold*	Kilograms	3,241	67,379	3,656	76,339
Iron ore (total)	'000 tonnes	31,366	368,005	33,450	389,245
Lumps	,,	23,398	283,572	23,947	292,988
Fines§	,,	7,968	84,433	9,503	96,257
Lead concentrates	Tonnes	3,880	4,827**	4,262	5,302**
Manganese ore	'000 tonnes	1,673	77,185	1,754	76,990
Silver*	Kilograms	1,540	815	3,774	2,051
Tungsten ore	,,	34,900	1,080	29,522	1,174
Zinc concentrates	Tonnes	15,888	15,761**	15,865	15,740**
Non-metallic minerals			384,573		373,040
Agate	Tonnes	743	130	724	116
Apatite & rock phosphates					
Apatite	Tonnes	15,997	982	11,307	742
Phosphorite	,,	156,353	13,448	232,089	20,135
Asbestos	,,	10,056	2,111	10,931	2,125
Ball-clay	,,	8,472	112	8,608	147
Barytes	,,	74,843	1,443	58,136	1,378
Calcite	,,	16,839	262	17,681	252
Chalk	,,	47,609	809	48,166	835
China-clay (Nonsaleable crude)†	'000 tonnes	343	N.A.	379	N.A.
China-clay (saleable crude)†	,,	204	1,667	220	2,018
China-clay (processed)†	,,	99	8,409	104	10,109
Cordierite	,,	789	89	—	—
Corundum	Tonnes	411	219	316	161
Diatomacious Earth	,,	—	—	87	3
Diamond	Carat	20,325	6,942	19,383	7,443
Dolomite	'000 tonnes	1,148	17,852	1,311	22,569
Emerald (crude)	Carat	11,625	N.A.	23,465	N.A.
Emerald (dressed)	,,	4,525	1	N.A.	N.A.
Felspar	Tonnes	29,625	275	32,957	312
Fireclay¶	'000 tonnes	551	4,591	522	4,299
Fluorite (graded/sorted)†	Tonnes	4,666	3,937	2,976	2,713
Garnet (abrasive)	,,	988	45	1,557	120
Garnet (gem variety)	Kilograms	5,268	39	378	2
Gypsum	'000 tonnes	921	8,829	1,069	11,273
Kyanite	Tonnes	119,126	26,108	80,865	19,380
Limestone & other calcareous materials					
Limestone	'000 tonnes	23,801	230,231	24,934	213,226
Lime kankar	,,	381	784	440	1,362
Lime shell	'000 tonnes	81	1,497	95	1,742
Calcareous sand	,,	996	1,209	1,023	1,174
Magnesite	,,	354	11,870	296	8,375

Note : * Relates to metal.

§ Figures relate to despatches from the mines for internal consumption/exports. However, in the case of Goa, the figures relate to output.

¶ Includes partly the output of fireclay produced from the collieries.

@ Relates to gas utilised.

† The production of chinaclay for purposes of reporting is categorised as nonsaleable crude, saleable crude and processed. The processed chinaclay is recovered from the non-saleable crude after washing and refining and despatched to various consuming industries. On the other hand, saleable crude chinaclay represents the material despatched by the mineowners as such, directly to the consumers who are by and large pottery and ceramic manufacturers.

** In addition a quantity of 1,915 tonnes during 1970 and 2,143 tonnes during 1971 (excluding December, 1971 for which data are not available) was reported from Madhya Pradesh.

PRODUCTION AND VALUE OF MINERALS—*(Contd.)*

Mineral	Unit	Production			
		1970		1971	
		Quantity	Value (Rs. '000)	Quantity	Value (Rs. '000)
1	2	3	4	5	6
Mica (crude)	Tonnes	16,485	20,143	14,290	17,916
Mica (mine waste, scrap etc.) ..	,,	5,311	N.A.	4,036	N.A.
Ochre	,,	39,708	778	46,398	709
Pyrites	,,	25,668	5,432	40,886	8,230
Pyrophyllite	,,	13,922	381	10,768	217
Quartz & Silica					
Quartz	'000 tonnes	176	1,405	166	1,285
Quartzite	,,	100	1,596	112	1,991
Silica sand	,,	282	3,184	279	2,732
Moulding sand	,,	59	301	57	274
Sand (others)	,,	622	1,043	844	1,608
Salt (rock)	Tonnes	4,017	504	3,845	481
Sapphire (raw/unwashed) ..	Kilograms	163	N.A.	—	—
Sillimanite	Tonnes	4,489	798	4,175	608
Slate	,,	633	81	725	109
Staurolite	,,	87	43	—	—
Steatite	'000 tonnes	159	4,905	165	4,776
Tourmaline	Tonnes	14	—	—	—
Vermiculite	,,	1,530	63	495	12
Wollastonite	,,	576	25	2,0[illegible]9	81

AGRICULTURE

(For latest information see 'Food Situation' in General Index)

AGRICULTURE offered employment to over 126 million people in 1971 against 131 million in 1961.

Some major facts about Indian agriculture (1969-70): Total geographical area according to Surveyor-General of India: 328·0 million hectares; total reporting area: 305·9 million hectares; area not available for cultivation including forests, 112·5 million hectares, land for non-agricultural uses and barren lands, 15·8 and 31·6 million hectares respectively; other uncultivable lands like permanent pastures and grazing lands, land under free crops and cultivable wastes 32·8 million hectares; fallow land: 21·5 million hectares; Current fallows: 12·0 million hectares; net area sown: 139·1 million hectares; area sown more than once: 24·8 million hectares; gross area sown: 163·9 million hectares; net area irrigated: 30·3 million hectares and gross area irrigated: 37·2 million hectares.

AREA AND PRODUCTION:

The names of crops, area in million hectares and production in million tonnes respectively during 1971-72 are given below: rice: 37·334; 42·735; wheat: 19·163; 26·477; barley: 2·432; 2·501; maize: 5·637; 5·026; jowar: 16·802; 7·753; bajra: 11·769; 5·357; ragi: 2·400; 2·167; small millets: 4·513; 1·582; total cereals: 100·050; 93·598; gram: 8·027; 5·106; red gram: 2·311; 1·574; other pulses: 11·836; 4·378; total pulses: 22·174; 11·058; total foodgrains: 122·224; 104·656; Sesamum: 2·408; 0·459; groundnut: 7·240; 5·712; rape and mustard: 3·589; 1·451; linseed: 1·944; 0·510; castor seed 0·416; 0·144; total oilseeds: 15·597; 8·276; tobacco: 0·445; 0·409; cotton: 7·784; 6·526 (million bales of 180 kg. each); jute: 0·818; 5·711 (million bales of 180 kg. each); mesta: 0·295; 1·127 (million bales of 180 kg. each); sanhemp: 0·142; 0·054 (fibre); turmeric 0·79; 0·144; potato: 0·496; 4·834; guar seed: 1·552; 0·492.

Coconut: 1·078; 6·088; arecanut: 0·174; 0·151; cashew nuts: 0·235; 0·197; cardamom: 0·077; 0·004; sugarcane: 2·418; 11·730 (in gur); pepper: 0·119; 0·026; ginger: 0·244; 0·034; chillies: 0·734; 0·439; tea: 0·357; 0·433; bananas: 0·226; 3·234.

INDEX OF PRODUCTION—ALL COMMODITIES

(Base: Triennium ending 1961-62 = 100)

Year	INDEX NUMBERS OF PRODUCTION		
	Foodgrains	Non-foodgrains	All commodities
1967-68	117·1	115·6	116·6
1968-69	115·7	113·2	114·8
1969-70	123·5	120·5	122·5
1970-71	133·9	127·0	131·5
1971-72	130·9	126·0	129·2

FOODGRAINS (1971-72)

An 3·5 per cent decrease in food production was recorded this year over last year's production. This year's production stood at 104·7 million tonnes compared with last year's production of 108·4 million tonnes.

The total cereal production is 93·598 million tonnes, about 3·0 million tonnes less than last year at 96·604 million tonnes. The total pulses produced are 11·576 million tonnes, a decrease of 6·4 per cent.

The grain-wise break up is : rice 42·735 million tonnes; jowar 7·753 million tonnes; bajra 5·357 million tonnes; maize 5·026 million tonnes; ragi 2·167 million tonnes; small millets 1·582 million tonnes; wheat 26·477 million tonnes; barley 2·501 million tonnes; gram 8·027 million tonnes; red gram 1·574 million tonnes and other pulses 4·378 million tonnes.

Rice : Production in the country during 1971-72 was estimated at 42·74 million tonnes marking an increase of 0·51 million tonnes (1·2 per cent) over the previous year (1970-71). The yield per hectare registered a 2·0 per cent increase over last year. West Bengal continued to be the largest producer of rice with an output of 6·508 million tonnes followed by Tamil Nadu with 5·362 million tonnes. Increase in production has been shared mainly by Bihar, West Bengal, Punjab and Mysore. This increase in production has, however, been offset to some extent by the decreases mainly accounted for by Andhra Pradesh, Orissa, Maharashtra, Gujarat and Assam.

Wheat: The area under wheat was 19·2 mill. hectares and production 26·5 mill. tonnes the highest on record. The increase in production during 1971-72 is accounted for by all the major wheat growing states except Uttar Pradesh, Rajasthan and Gujarat and is generally ascribeable to improvements in average yield due to high yielding varieties programme, development of minor irrigation facilities and other intensive cultivation measures. Wheat is grown widely throughout the north as a winter crop, Uttar Pradesh, Madhya Pradesh, Haryana and Punjab supplying over 70 per cent of the total out-turn in this country. This crop occupies, on an average, about 11·7 per cent of the total cultivated area. More than 40 per cent of the crop is irrigated.

Jowar : About 16·802 million hectares are grown to yield 7·753 million tonnes of grain. Maharashtra, Andhra, Mysore, and Madhya Pradesh contribute over three-fourth of the total output. The jowar area and production respectively during 1971-72 were 16·8 mill. hectares and 7·8 mill. tonnes.

Bajra : Occupies over 12 million hectares to yield about 5 million tonnes of grains. Uttar Pradesh, Rajasthan, Haryana, Gujarat and Maharashtra are the chief growing tracts. The duration of the crop varies from about 2½ to 5 months. During 1971-72 bajra was cultivated in 11·8 million hectares and produced about 5·36 million tonnes total output.

Ragi : Ragi occupies about 2·5 million hectares to produce over 2·2 million tonnes of grain. More than half the area is in Mysore, Tamil Nadu and Andhra Pradesh. The area and yield during 1971-72 were 2·4 million hectares and 2·2 million tonnes respectively.

Other Millets : Small millets form about one-tenth of the total area under millets and are grown in over 4·5 million hectares and yield about 2 million tonnes of grain. The area and yield during 1971-72 were 4·51 million hectares and 1·58 million tonnes respectively. The most important among them are Korra or Kangni, Cheena or Varagu, Kodon, Kutki and Sawan.

Maize : Maize is cultivated in India in about 5·637 mill. hectares to produce about 5·026 mill. tonnes of grain. The major growing areas, Uttar Pradesh, Bihar, Rajasthan, Punjab and Madhya Pradesh between themselves account for about three-fourth of the maize area. The area and production during 1971-72 were 5·64 mill. hectares and 5·03 mill. tonnes respectively.

Barley : During 1971-72 barley was cultivated in an area of 2·43 mill. hectares and the production estimate was 2·50 million tonnes.

Pulses : Pulses are grown in over 22 million hectares producing about 11·1 million tonnes of grains.

Cotton : The area under cotton during 1971-72 was 7·8 mill. hectares producing 6·5 million bales of 180 kgs. each of cotton lint or 3·5 million tonnes of kapas. Production of cotton during 1971-72 was the highest on record and was attributed partly to increase in area and in yield due to favourable weather.

Jute : The area under jute during 1971-72 was 0·82 million hectares yielding 5·7 million bales of 180 kgs. each.

Oilseeds : The present production of 5 major oilseeds viz., groundnut, sesamum, rapeseed and mustard, linseed and castor-seed is 8,275,500 tonnes as against 9,258,600 tonnes a year ago. With a view to augmenting the supplies of vegetable oilseeds and oils, measures have been taken to increase the production of traditional oilseeds, including summer groundnut, and encouraging non-traditional oilseeds like sunflower and soyabean, advocating larger utilisation of cottonseed oil and rice bran oil and minor oilseeds of tree origin. Cultivation of sunflower because of its short duration, high per hectare yield and high oil content is likely to be taken up during 1972-73 over an area of 180,000 hectares.

The High Yielding Varieties Programme : More use of high yielding varieties is the key to the achievement of the Fourth Plan target for foodgrains production. The coverage under high yielding varieties increased from 11·4 million hectares in 1969-70 to 15·4 million hectares in 1970-71 and to 18 million hectares in 1971-72. It is hoped this could be increased to 25 million hectares by 1973-74.

In wheat production, the high yielding varieties have brought about a revolution. Before introducing the high yielding varieties in 1964-65 the production was 12·3 million tonnes. In 1971-72 it was 26·5 million tonnes.

In the case of rice, IR-8 has been found to be the most acceptable high yielding variety in most parts of the country. Intensive efforts are being made to evolve new varieties of rice having higher yield, superior grain quality and better resistance to pests and diseases.

Hybrid bajra is gaining popularity both under irrigated and rainfed conditions. Research is being carried out to evolue suitable varieties of maize. In the case of pulses too, three high yielding varieties of early maturing arhar, namely, S-5 (Agati), 5-8 (Sharda) and R-60 (Makta) and early Baisakhi moong have been released.

Fruit: The total area under fruit production is 1·37 million hectares and the production is estimated at 10 million tonnes. The ICAR has sanctioned a centre for research on banana and pine-apple at Trichur in Kerala under its Fourth Plan scheme of All India Co-ordinated Fruits Improvement Project at a total cost of Rs. 0·28 million. The ICAR has also finalised plans to set up research centres for various horticultural crops in the eastern region to exploit the vast potential in that area. Exports of canned fruits during 1970-71 amounted to Rs. 17·5 million and that of pickles and chutnies to Rs. 6·3 million. During 1971, 101 new licences were granted and 1,093 renewed.

About half a million tonnes of fruits and vegetables are now manufactured in the country, major portion of this is represented by soft-drinks.

The present production of banana is about 3·2 million tonnes and a centrally sponsored scheme to intensify the

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cultivation of bananas over 12,000 hectares has been sanctioned since December, 1971, for implementation during the remaining Fourth Plan period. The scheme envisages the production of 0·4 million tonnes of bananas of which 0·1 million tonnes would be the exportable type.

Regulated Markets : One of the visible benefits has been the reduction in the market charges to extents varying between 28 to 50 per cent. Most of the states have passed the necessary legislation for market regulation. Marketing surveys are regularly carried out for the development of new market yards with modern amenities to cope with the growing volume of trade. As a benefit to the producer and consumer grading units have been set up in almost all states and Union Territories. The number of regulated markets at the end of June, 1972, stood at 2,716 as against 2,356 in September, 1971. The number of grading units at the producer's level at the end of October, 1972, was 460 as against 411 last ear. The total value of commodities graded during 1971-72 was about Rs. 1,649 million.

Marketing, Processing : The main features of the programme are :— (1) Linking credit with marketing in the form of marketing societies; (2) Developing, processing and distribution of farming requisites on co-operative lines, (3) Promotion of storage and warehousing; (4) Consolidation and strengthening of consumer co-operatives at all levels; and (5) Development of co-operatives for small, marginal farmers and agricultural labourers as also for tribal areas.

Exports of agricultural commodities were Rs. 3,263 million during 1971-72 as against Rs. 3,000 million during the previous year, an increase of about 9 per cent. This increase in exports was mainly due to sugar, solvent extracted groundnut meal, rice, castor oil, cardamom, meat and meat products, gums and resin and ginger.

Exports during 1971-72 amounted to Rs. 3,431 million — 5·2 per cent higher than last year.

Cold Storage : The present capacity of cold storage in the country is about 1·7 million tonnes provided by 1,390 cold storages mostly run by private traders. 171 new licences were granted and 1,319 licences were renewed during the year, 1971.

AGRICULTURAL EDUCATION

There are 19 Agricultural Universities in India at the following places: Andhra Pradesh (Hyderabad); Assam (Jorhat); Uttar Pradesh (Pantnagar); Gujarat (Ahmedabad); Haryana (Hissar); Himachal Pradesh (Simla); Madhya Pradesh (Jabalpur); Kerala (Mannuthy); Maharashtra (Dapoli, Rahuri, Parbhani & Krishinagar); Orissa (Bhubaneswar); Punjab (Ludhiana); Bihar (Patna); Tamil Nadu (Coimbatore); Mysore (Hebbal); West Bengal (Kalyani); and Rajasthan (Udaipur). About 15,500 Agricultural graduates have passed out so far.

There are 71 agricultural colleges, 20 veterinary colleges, 9 agricultural engineering colleges, 2 Dairy Science colleges, and 5 Home Science colleges.

(See also main Chapter on 'Education' under subject of study.)

SOIL CONSERVATION

Till the end of 1970-71 an area of 12 million hectares had been treated under the soil conservation programme at an estimated cost of Rs. 2,465·6 million. About 1·37 million hectares of agricultural land are expected to benefit from soil conservation programmes in 1971-72 at a total cost of about Rs. 318·0 million.

Centrally sponsored soil conservation schemes are in operation in the catchment of 13 major river valley projects spread over 14 states to reduce the premature silting of the reservoirs. During the first three years of the Fourth Plan about 0·28 million hectares have been treated under this scheme at a cost of Rs. 120·3 million. Under the nine additional projects included in the Fourth Plan considerable importance has been attached to watershed management.

During 1971-72 an outlay of Rs. 5·0 million was provided for reclamation of 2,000 hectares of ravine land in Uttar Pradesh, Madhya Pradesh, Rajasthan and Gujarat.

The All-India Soil and Land Use Survey Organisation, Pusa Rd., New Delhi 110012, is carrying out standard soil surveys in the catchments of 21 river valley projects. Under this scheme 0·47 million hectares were surveyed during the first two years of the Fourth Plan and another 0·24 million hectares were expected to be covered in 1971-72.

Research Centres: Eight research-cum-training centres under the jurisdiction of I.C.A.R. have been established at the following places :—

1. Ootacamund (Tamil Nadu) for erosion control in the Nilgiri and other hills; 2. Bellary (Mysore) for soil conservation studies in black soils; 3. Kotah (Rajasthan) with sub-centre at Agra for erosion control in the Chambal and Jumna ravines; 4. Dehra Dun (U.P.) for studying problems of afforestation in the Sivalik hills with the sub-station at Chandigarh for training *chos* (hill torrents); 5. Vasad (in the Gujarat tract) for erosion control in the ravines along rivers in Gujarat; 6. Chandigarh (outer Sivaliks); 7. Agra (Yamuna ravines); 8. Ibrahimpatnam (Andhra) for tackling red soil problems.

The centres have trained 731 gazetted officers and 926 assistants in regular courses and 273 officers in short duration special courses to man the soil and water conservation projects.

FERTILISERS : (See Chapter on Fertiliser Industry).

Plant Protection : The plant protection programme included seed treatment, prophylactic spraying, weed control, rat control, control of epidemics etc. During 1971-72 the gross area benefited is estimated at 49 million hectares as against 44 million hectares in the previous year. Aerial spraying operations were intensified. The area covered rose to 1.10 million hectares during 1971-72, from 0.45 million hectares during 1969-70. A fleet of 67 aircraft is available for aerial spraying. Under centrally sponsored scheme, 0.6 million hectares of endemic areas were covered by plant protection measures in 1971-72 as against 0·5 million hectares last year.

Agricultural Machinery : An estimated 173,000 tractors were in use at the end of 1972. Indigenous production of tractors was about 20,000 in 1970 and about 16,500 in 1971.

5 Units have been licenced for manufacturing power tillers with a capacity of 36,000 per annum.

During the first three years of the Fourth Plan about 40,784 tractors were imported. The demand for threshers and combine harvestors is increasing. During 1971-72, 126 combine harvestors were imported.

Agricultural Credit : Short and medium term loans advanced to cultivators during 1971-72 are believed to have reached Rs. 7,200 million compared with Rs. 5,780 million in 1970-71.

Small Farmers and Agricultural Labourers: 46 Small Farmers Development Agency Projects have started functioning. By May, 1972, the agencies had identified 1.59 million small farmers and assistance for development of minor irrigation, purchase of milch animals, poultry etc. is being given to them.

The marginal farmers (with holdings upto 1 hectare) and agricultural labourers (generally with homestead and earning more than 50 per cent of their income from agricultural wages) are also being assisted in 41 selected areas in the country. Over 0.8 million have been identified and are being helped to take up various subsidiary programmes like road construction in rural areas, afforestation, soil conservation, construction of godowns, collection of forest produce etc.

Agricultural Research: The Indian Council of Agricultural Research is the apex organisation for sponsoring, coordinating and directing agricultural research and education in the country. The Council now has 23 research institutes under it. A Central Plantation Crops Research Institute has been set up in 1970-71 with headquarters at Kasaragod by combining the three research stations located at Kasaragod, Kayamgulam and Vittal.

Land Reclamation and Development: The scheme of land reclamation continued to be implemented under the normal State development programme during 1971-72. Work to reclaim and develop an area of 0.07 million hectares with financial assistance of Rs. 470 million from the Agricultural Refinance Corporation was in progress.

Minor Irrigation: Minor irrigation includes schemes relating to small storage tanks, river pumping projects, tube-wells, filter points, dug wells, small flood protection embankments and drainage schemes. A high tempo of development of minor irrigation, especially ground water utilisation was maintained in 1971-72. About 1.89 million electrical pumpsets, 0.59 million private tubewells, 0.02 million State tubewells and 6.28 million dugwells were installed. In the first three years of the Fourth Plan about 4.5 million hectares have been benefited through minor irrigation. The **Central Ground Water Board** (Jamnagar House, New Delhi-110011) is fully responsible for groundwater exploration in the country and most of the States have set up Ground Water Organisations for development of groundwater resources for agricultural purposes.

Ceiling on Holding: Concerted attempts at evolving a national policy for ceilings on land began in 1969 and following the recommendations of the Central Land Reforms Committee in July 1972, the Chief Ministers of all the States suggested a national policy which has since been given a concrete shape by the Government of India. Keeping in view the varied agro-economic and climatic conditions prevalent in the country, it has been decided to keep the holding of a family between 4.05 and 7.28 hectares of land with assured irrigation capable of yielding two crops in a year; a ceiling of 10.93 hectares for land with facilities of irrigation capable of yielding one crop a year; and a ceiling of 21.85 hectares for all other categories of land. A family unit for the ceiling consists of husband, wife and three minor children. Additional land can be retained by large families subject to a maximum of twice the ceiling. Only the plantations of tea, coffee, cocoa and cardamom have been allowed exemptions from the ceiling. By now nine States have passed legislations revising the ceiling laws which are: Andhra Pradesh 4.05–10.93 hectares of wet land, 14.60–21.85 hectares of dry land; Bihar 6.07–7.28 hectares of irrigated land, 12.14–18.21 hectares of other land; Haryana 7.28–10.92 hectares of irrigated land, 10.92–21.85 hectares of other land; Jammu & Kashmir 3.69–8.98 hectares; Kerala 4.86–6.07 hectares; Madhya Pradesh 4.05–21.85 hectares; Maharashtra 7.28–14.57 hectares of irrigated land; 14.57–21.85 hectares of other land; Tamil Nadu 4.86 hectares; West Bengal 5 hectares of irrigated land and 7 hectares of other land.

Size of Holding: The average size of holding for the whole of India is 2.63 hectares, but this varies from State to State. Andhra Pradesh 2.87 hectares; Assam 1.46 hectares; Bihar 1.53 hectares; Gujarat 4.49 hectares; Jammu & Kashmir 1.43 hectares; Kerala 0.75 hectares; Madhya Pradesh 3.99 hectares; Tamil Nadu 1.49 hectares; Maharashtra 4.65 hectares; Mysore 4.11 hectares; Orissa 1.98 hectares; Punjab 3.85 hectares; Rajasthan 5.5 hectares; Uttar Pradesh 1.78 hectares; West Bengal 1.56 hectares.

Out of total estimated number of 71 million rural households possessing operational holdings, 36 per cent hold on the average less than 0.20 hectares of land each.

Legislation has been enacted in a number of States for compulsory consolidation. By 1969 about 34 million hectares of land had been consolidated. Statewise progress in consolidation of holdings in million hectares is as follows: Andhra Pradesh 0.02; Bihar 0.07; Gujarat 1.04; Haryana 3.31; Himachal Pradesh 0.37; Jammu & Kashmir 0.04; Madhya Pradesh 3.18; Maharashtra 7.58; Mysore 0.30; Punjab 4.78; Rajasthan 1.74; Uttar Pradesh 10.51; Delhi 0.07; and Chandigarh 0.05.

In view of the importance of consolidation in the Fourth Five-Year Plan, a provision of Rs. 287.6 million has been made by the States to consolidate an area of 0.94 million hectares.

Co-operative Farming: The programme of co-operative farming is directed towards the solution of the problems presented by small and uneconomic cultivators and landless labourers. Co-operative farming envisages pooling of land and joint cultivation. In a joint farming society, members owning lands pool their lands and cultivate the pooled lands jointly. In a collective farming society, the society holds land on free-hold or lease-hold basis and the land is cultivated jointly by the members. As on the 30th June 1971, there were nearly 9,601 co-operative farming societies with a membership of 0.257 million and covering an area of 0.512 million hectares. Of these, the number of joint farming societies was 5,067 with a membership of 0.122 million and covering an area of 0.311 million hectares. The number of collective farming societies was 4,534 with a membership of 0.135 million and covering an area of 0.201 million hectares.

AREA AND CLASSIFICATION 1969–70

(Thousand hectares) (Provisional) As on 31st October, 1972

State/Territory	Geographical area	Area for land utilisation	Forests	Area put to non-agricultural uses	Barren and uncul-turable land	Permanent pastures and other grazing land	Land under Misc. tree crops and groves not included in net area sown	Culturable waste land
Andhra Pradesh ..	27,676	27,440	6,509	2,082	2,053	1,152	323	1,222
Assam(b)	7,853	7,807	2,080	768	1,802	234	227	184
Bihar	17,388	17,330	3,017	1,517	1,072	175	186	534
Gujarat(c)	19,598	18,645	1,636	539	4,433	1,017	22	499
Haryana	4,422	4,402	97	269	219	57	4	48
Himachal Pradesh ..	5,567	4,952	2,659(d)	214	102	1,144	76	145
Jammu & Kashmir ..	22,224	4,523(e)	2,778(d)	268	276	134	107	155
Kerala	3,886	3,859	1,056	268	74	28	140	81
Madhya Pradesh ..	44,284	44,337	14,437	2,064	2,362	3,110	209	2,239
Maharashtra	30,776	30,768	5,409	682	1,774	1,351	195	708
Manipur(f)	2,236	2,211	602	26	1,380	(h)	24	(h)
Meghalaya(g)	2,248	2,255	187	—	1,905	—	—	—
Mysore	19,177	18,938	2,868	923	852	1,633	308	631
Nagaland(i)	1,653	1,351	266	—	985*	—	—	—
Orissa	15,584	15,540	4,960	1,000*	802*	723	431	807
Punjab	5,036	5,030	119	415	220	5	5	89
Rajasthan	34,222	34,107	1,342	1,173	4,710	1,835	11	6,378
Tamil Nadu ..	13,007	13,004	2,016	1,473	854	223	232	527
Tripura(j)	1,048	1,066	635	38	6	53	90*	4
Uttar Pradesh ..	29,441	29,585	4,005	2,023	2,466	77	802	1,373
West Bengal(k) ..	8,785	8,852	1,108	(l)	1,288	(h)	608	(h)
Andaman & Nicobar Islands	829	790	740	1	1	3	19	5
Arunachal Pradesh(m)	8,358	6,352	5,154	—	1,143	—	—	—
Dadra & Nagar Haveli	49	49	21	(a)	3	8	—	—
Delhi	149	148	2	31	15	1	(a)	4
Goa, Daman & Diu(f)	381	370	105	21	16	1	1	93
Laccadive, Minicoy & Amindivi Islands ..	3	3	—	(a)	—	—	(a)	—
Mizoram(o)	2,109	2,092	1,298	—	755	—	—	—
Pondicherry	48	47	—	11	(a)	1	2	1
Total	328,048(g)	305,853(f)	65,106	15,807	31,568	12,965	4,022	15,727

Notes :—

(a) Below 500 hectares.

(b) Related to the year 1968-69 except in the case of "net area sown, gross area sown and area sown more than once", difference between "net area sown" for the years 1968-69 & 1969-70 has been adjusted under the head "Current follows".

(c) Relates to the year 1968-69. (d) — Includes forest area under the control of Forest Department.

(e) Excludes information on area under the unlawful occupation of China and Pakistan.

(f) Ad-hoc Estimates. (g) — Data relates to the Garo Hills and U.K. and J. Hill Districts of Assam State.

(h) Included under the head "Land under" miscellaneous tree crops and groves, etc.

(i) Relates to Naga Hills District of Assam State for the year 1956-57. * — Adjusted.

(j) Figures relates to the year 1964-65 except otherwise indicated. (k) — Relates to the year 1965-65.

(l) Included under the head "Barren and uncultivable land". (m) — Relate to the year 1956-57.

(o) Data related to Mizo Hills District of Assam State. (g) — Includes geographical area of Chandigarh also.

AREA AND CLASSIFICATION 1969-70 — (*Contd.*)

(Thousand hectares) (Provisional) As on 31st October 1972

States/Territories	Fallow lands other than current fallows	Current fallows	Net area sown	Total cropped area	Area sown more than once	Net irrigated area	Gross irrigated area
Andhra Pradesh	910	1,679	11,510	13,145	1,635	3,189	4,153
Assam(b)	173	113	2,226	2,773	547	572(r)	572(r)
Bihar	907	1,527	8,395	11,063	2,668	2,279	2,741
Gujarat(c)	365	542	9,592	10,182	590	1,150	1,241
Haryana	—	160	3,548	4,941	1,393	1,408	2,158
Himachal Pradesh ..	2	60	550	910	360	94	156
Jammu & Kashmir ..	15	86	704	868	164	279(ss)	338
Kerala	23	23	2,166	2,916	750	423	589
Madhya Pradesh	848	685	18,383	20,399	2,016	1,431	1,471
Maharashtra	1,105	1,082	18,462	19,435	973	1,431	1,623
Manipur(f)	—	(a)	179	188	9	65	75
Meghalaya(g)	—	905	163	195	32	37(r)	37(r)
Mysore	621	905	10,197	10,794	597	1,144	1,305
Nagaland(i)	—	—	100*	102*	2	12	12
Orissa	97	626	6,094	8,382*	2,288*	1,027	1,423
Punjab	—	150	4,027	5,499	1,472	2,836	4,080
Rajasthan	3,008	2,555	13,095	14,267	1,172	2,059	2,419
Tamil Nadu	600	1,010	6,069	7,162	1,093	2,507	3,272
Tripura(j)	2*	3*	235(s)	335(ss)	100*	17(ss)	17(ss)
Uttar Pradesh	558	798	17,483	22,878	5,395	6,819	7,929
West Bengal(k)	279	(p)	5,569	7,054*	1,485*	1,478	1,499
Andaman & Nicobar Islands	1	1	18	18	(a)	—	—
Arunachal Pradesh(m) ..	—	—	55(t)	55(t)	N.A.	—	—
Dadra & Nagar Haveli ..	1	—	16	17	1	(a)	(a)
Delhi	7	8	80	111	31	47	57
Goa, Daman & Diu(f) ..	—	—	133	139	6	8	8
Laccadive, Minicoy & Amindivi Islands	—	(a)	3	3	(a)	(a)	(a)
Mizoram(o)	—	—	39	40	1	2(r)	2(r)
Pondicherry	(a)	1	31	51	20	26	39
Total	9,522	12,014	139,122	163,922	24,800	30,340	37,216

Notes :—

(*a*) Below 500 hectares.

(*b*) Relates to the year 1968-69 except in the case of "net area sown, gross area sown and area sown more than once". Difference between "net area sown" for the year 1968-69 and 1969-70 has been adjusted under the head "Current fallows".

(*c*) Relates to the year 1968-69.

(*f*) Ad-hoc Estimates.

(*g*) — Data relates to the Garo Hills and U.K. and J. Hill Dists. of Assam State.

(*i*) Relates to Naga hills District of Assam State for the year 1956-57. * Adjusted.

(*j*) Figures relate to the year 1964-65 except otherwise indicated.

(*k*) Relates to the year 1964-65. (*m*) Relates to the year 1956-57. (*o*) — Data relates to Mizo Hills District of Assam State.

(*r*) Relates to the year 1953-54. (*s*) Relates to the year 1965-66.

(*ss*) Relates to the year 1967-68. (*t*) Relates to Rice crop only.

STATEWISE AREA AND PRODUCTION OF PRINCIPAL CROPS, 1971–72

Area : Thousand Hectares ; Production : Thousand Tonnes.

State/Union Territories	Rice		Wheat		Jowar		Bajra
	Area	Production	Area	Production	Area	Production	Area
1. Andhra Pradesh ..	2,724·2	4,301·6*	15·4	3·4	2,491·4	1,113·9*	491·1
2. Assam	1,967·6	1,908·2	40·0	48·0	—	—	—
3. Bihar	5,205·9	5,006·2	1,397·4	2,493·7*	5·2	1·9	13·5
4. Gujarat	474·5	517·5*	574·5	897·4*	1,196·8	482·7*	1,776·2
5. Haryana	290·0	530·0*	1,172·0	2,394·0	201·0	46·0*	876·0
6. Himachal Pradesh ..	98·1	103·6*	410·0‡	375·0*‡	—	—	—
7. Jammu & Kashmir ..	212·8	370·1*	225·0	200·0‡	0·1	—	19·2
8. Kerala	871·5	1,335·9*	—	—	1·5	0·8	—
9. Madhya Pradesh ..	4,415·0	3,665·7*	3,509·0	3,046·4*	2,047·4	1,282·4	217·1
10. Maharashtra	1,331·6	1,368·5	1,009·3	502·8*	6,169·0	1,931·5*	1,134·7
11. Manipur	138·1	163·7*	—	—	—	—	—
12. Meghalaya	98·5	108·0	0·3	0·2	—	—	—
13. Mysore	1,120·2	2,097·1	346·5	187·2*	2,419·7	1,861·4*	521·8
14. Nagaland	60·6	54·1	—	—	—	—	—
15. Orissa	4,734·0	3,906·0	18·8	31·4	19·0	10·8	3·1
16. Punjab	450·0	919·0*	2,320·0	5,598·0*	2·6	1·7	139·0
17. Rajasthan	133·0	159·0	1,524·4	1,904·4	949·1	255·2*	5,130·6
18. Tamil Nadu	2,668·0	5,362·0*	2·4	0·9	668·6	522·0*	481·1
19. Tripura	285·0	310·0‡	—	—	—	—	—
20. Uttar Pradesh ..	4,886·1	3,776·3	6,045·8	7,549·0*	620·7	239·3*	949·0
21. West Bengal	4,991·5	6,508·4	500·0‡	1,152·0*‡	0·4	0·2	0·2
22. Andaman & Nicobar Islands	8·6	10·4	—	—	—	—	—
23. Arunachal Pradesh ..	57·3	49·8	—	—	—	—	—
24. Dadra & Nagar Haveli	9·7	13·2*	—	—	—	—	—
25. Delhi	2·6	2·4*	51·7	93·6*	9·5	3·2	15·5
26. Goa, Daman & Diu ..	51·6	78·6	—	—	—	—	—
27. Mizoram	17·3	16·6	—	—	—	—	—
28. Pondicherry	31·0	92·7	—	—	—	—	1·3
All-India	37,334·3	42,734·6	19,162·5	26,477·4	16,802·0	7,753·0	11,769·4

STATEWISE AREA AND PRODUCTION OF PRINCIPAL CROPS, 1971–72 — (*Contd.*)

Area : Thousand hectares ; Production : Thousand tonnes

State/Union Territories	Bajra	Maize		Ragi		Small Millets	
	Production	Area	Production	Area	Production	Area	Production
1. Andhra Pradesh ..	222.5*	229.5	242.9*	244.1	247.9*	649.4	119.2
2. Assam	—	11.7	6.4	—	—	5.9	2.9
3. Bihar	8.0†	823.4	132.5*	135.9	53.1	224.3†	96.9†
4. Gujarat	1,545.1	268.5	432.0*	52.1	49.4*	154.0	132.2
5. Haryana	620.0*	115.0	140.0*	—	—	0.1†	0.1†
6. Himachal Pradesh ..	—	246.1	330.3*	11.6	7.6	27.1	14.8
7. Jammu & Kashmir ..	11.0	282.2	363.3*	—	—	16.9	7.9
8. Kerala	—	—	—	5.0	4.8	5.2	2.8
9. Madhya Pradesh ..	129.5*	587.5	465.3*	19.0	5.2	1,590.6	366.4
10. Maharashtra	239.1*	26.1	18.2	220.2	174.5*	200.2	73.1
11. Manipur	—	6.6	17.1*	—	—	—	—
12. Meghalaya	—	14.9	7.5	—	—	1.7	0.9
13. Mysore	173.8*	80.3	308.4	962.4	861.0	512.6	109.5
14. Nagaland	—	—	—	—	—	—	—
15. Orissa	1.3	83.7	57.8	151.1	128.4	157.2	65.8
16. Punjab	164.0*	546.0	852.0*	—	—	0.3	0.2
17. Rajasthan	1,371.2*	775.0	751.8*	—	—	60.0	23.5
18. Tamil Nadu	330.9	13.9	15.3	311.4	333.9*	468.6	359.4
19. Tripura	—	—	—	—	—	—	—
20. Uttar Pradesh ..	528.4	1,478.9	845.8*	274.4	288.9*	431.4	202.3
21. West Bengal	0.1†	45.1	38.0	7.6	6.2	7.6	4.4
22. Andaman & Nicobar Islands	—	—	—	—	—	—	—
23. Arunachal Pradesh ..	—	—	—	—	—	—	—
24. Dadra & Nagar Haveli	—	—	—	2.5	2.1*	—	—
25. Delhi	9.6*	1.9	0.8	—	—	—	—
26. Goa, Daman & Diu ..	—	—	—	—	—	—	—
27. Mizoram	—	0.6	0.3	—	—	—	—
28. Pondicherry	2.3	—	—	2.7	4.4	—	—
All-India	5,356.8	5,636.9	5,025.7	2,400.0	2,167.4	4,513.1	1,582.3

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* Based on the results of crop cutting surveys. † Last year's figures repeated. ‡ Estimated.

STATEWISE AREA AND PRODUCTION OF PRINCIPAL CROPS, 1971–72 — (*Contd.*).

Area : Thousand hectares ; Production : Thousand tonnes

States, Union Territories	Barley		Total Cereals		Gram
	Area	Production	Area	Production	Area
1. Andhra Pradesh	—	—	6,845·1	6,251·4	77·1
2. Assam	—	—	2,025·2	1,965·5	1·7
3. Bihar	234·7	155·9*	8,040·3	7,948·2	241·3
4. Gujarat	8·4	4·4	4,505·0	4,060·7	57·0
5. Haryana	88·0	111·0*	2,742·1	3,841·1	1,140·0
6. Himachal Pradesh	39·4	35·2*	832·3	866·5	23·1
7. Jammu & Kashmir	16·1†	7·1†	772·3	959·4	2·4†
8. Kerala	—	—	883·2	1,344·3	—
9. Madhya Pradesh	165·7	152·6*	12,551·3	9,113·5	1,658·5
10. Maharashtra	5·0	2·3	10,096·1	4,310·0	433·2
11. Manipur	—	—	144·7	180·8	—
12. Meghalaya	—	—	115·4	116·6	0·1
13. Mysore	—	—	5,963·5	5,598·4	151·8
14. Nagaland	—	—	60·6	54·1	—
15. Orissa	—	—	5,166·9	4,201·5	22·0
16. Punjab	43·0	52·0*	3,500·9	7,586·9	346·0
17. Rajasthan	455·9	590·1*	9,028·0	5,055·2	1,644·4
18. Tamil Nadu	0·1	0·1	4,614·1	6,924·5	4·7
19. Tripura	—	—	285·0	310·0	0·2
20. Uttar Pradesh	1,312·1	1,337·9*	15,998·4	14,767·9	1,988·6
21. West Bengal	61·5†	50·0*‡	5,613·9	7,759·3	225·0‡
22. Andaman & Nicobar Islands	—	—	8·6	10·4	—
23. Arunachal Pradesh	—	—	57·3	49·8	—
24. Dadra & Nagar Haveli	—	—	12·2	15·3	—
25. Delhi	2·4	2·3*	83·6	111·9	9·7
26. Goa, Daman & Diu	—	—	51·6	78·6	—
27. Mizoram	—	—	17·9	16·9	—
28. Pondicherry	—	—	35·0	99·4	—
ALL INDIA	2,432·3	2,500·9	1,00,050·5	93,598·1	8,026·8

STATEWISE AREA AND PRODUCTION OF PRINCIPAL CROPS, 1971–72 — (*Contd.*).

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	Gram	Tur		Total Pulses	
	Production	Area	Production	Area	Production
1. Andhra Pradesh	19·7	182·5	40·6*	1,316·4	197·8
2. Assam	0·9	4·2	3·0	86·3	30·9
3. Bihar	170·3*	95·1	59·4*	1,559·3	955·3
4. Gujarat	40·3*	86·4	44·4	429·4	161·3
5. Haryana	661·0*	6·2	4·0	1,229·4	698·3
6. Himachal Pradesh	13·4	0·2†	0·1†	68·1	28·6
7. Jammu & Kashmir	0·8†	—	—	48·9	28·9
8. Kerala	—	4·9	0·9	37·8	13·1
9. Madhya Pradesh	1,052·1*	495·1	383·7*	4,284·0	2,205·2
10. Maharashtra	132·7*	482·1	251·0*	2,079·7	642·9
11. Manipur	—	—	—	—	—
12. Meghalaya	0·1	0·3	0·2	1·4	0·9
13. Mysore	61·6*	306·2	162·9*	1,359·2	466·1
14. Nagaland	—	—	—	—	—
15. Orissa	13·4	50·6	26·6	838·1	445·0
16. Punjab	290·0*	1·9	0·9	395·0	313·0
17. Rajasthan	885·5*	33·7	20·0	3,714·5	1,318·5
18. Tamil Nadu	2·6	65·6	23·9	442·1	108·0
19. Tripura	0·1	0·4	0·2	3·3	1·4
20. Uttar Pradesh	1,554·6*	467·8	529·1*	3,524·7	2,837·4
21. West Bengal	200·0*‡	25·8†	22·3*	724·0	596·6
22. Andaman & Nicobar Islands	—	—	—	—	—
23. Arunachal Pradesh	—	—	—	—	—
24. Dadra & Nagar Haveli	—	1·3†	0·5†	1·3	0·5
25. Delhi	6·7*	0·4	0·1	12·7	7·7
26. Goa, Daman & Diu	—	—	—	—	—
27. Mizoram	—	—	—	—	—
28. Pondicherry	—	—	—	—	—
ALL INDIA	5,105·8	2,310·7	1,573·8	22,173·6	11,057·4

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* Based on the results of crop cutting surveys. † Last year data repeated for want of information for the current year.
‡ Estimated in the absence of data from State Govt. for 1971-72.

STATEWISE AREA AND PRODUCTION OF PRINCIPAL CROPS 1971–72

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	Total Foodgrains		Cotton			
	Area	Production	Area	Production¶	Production of cotton seed	Production of Kapas
1. Andhra Pradesh	8,161.5	6,449.2	337.3	163.5*	58.9	88.3
2. Assam	2,111.5	1,996.4	5.0	2.0	0.7	1.1
3. Bihar	9,599.6	8,903.5	2.3†	3.9†	1.4	2.1
4. Gujarat	4,934.4	4,222.0	1,847.4	2,280.5*	821.0	1,231.5
5. Haryana	3,971.5	4,539.4	243.0	440.0	158.4	237.6
6. Himachal Pradesh	900.4	895.1	0.5	0.7	0.3	0.4
7. Jammu & Kashmir	821.2	988.3	0.6	1.4	0.5	0.8
8. Kerala	921.0	1,357.4	7.5	7.9	2.8	4.3
9. Madhya Pradesh	16,835.3	11,318.7	692.9	354.0*	131.8	195.5
10. Maharashtra	12,175.8	4,952.9	2,378.1	917.1	330.2	495.2
11. Manipur	144.7	180.8	—	—	—	—
12. Meghalaya	116.8	117.5	10.2	4.1	1.5	2.2
13. Mysore	7,322.7	6,064.5	1,077.5	568.8*	204.8	307.2
14. Nagaland	60.6	54.1	—	—	—	—
15. Orissa	6,005.0	4,646.5	0.3	0.5	0.2	0.3
16. Punjab	3,895.9	7,899.9	473.0	967.0	348.1	522.2
17. Rajasthan	12,742.5	6,373.7	334.7	393.6*	141.7	212.5
18. Tamil Nadu	5,056.2	7,032.5	312.6	388.5*	140.0	210.0
19. Tripura	288.3	311.4	2.4	2.2	0.8	1.2
20. Uttar Pradesh	19,523.1	17,605.3	55.8	26.0*	9.3	14.0
21. West Bengal	6,355.9	8,355.9	1.3†	2.0†	0.7	1.1
22. Andaman & Nicobar Islands	8.6	10.4	—	—	—	—
23. Arunachal Pradesh	57.3	49.8	—	—	—	—
24. Dadra & Nagar Haveli	13.5	15.8	—	—	—	—
25. Delhi	96.3	119.6	0.3	0.2	0.1	0.1
26. Goa, Daman & Diu	51.6	78.6	—	—	—	—
27. Mizoram	17.9	16.9	—	—	—	—
28. Pondicherry	35.0	99.4	0.9	2.5	0.9	1.4
All India	122,224.1	104,655.3	7,783.6	6,526.4	2,354.1	3,529.0

STATEWISE AREA AND PRODUCTION OF PRINCIPAL CROPS 1971–72 — (*Contd.*)

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	Jute		Mesta		Sanhemp	
	Area	Production¶	Area	Production¶	Area	Production¶
1. Andhra Pradesh	—	—	90.7	308.7	5.0	0.8
2. Assam	142.6	1,138.3*	9.6	36.3	—	—
3. Bihar	131.1	469.9*	31.5	99.2*	6.2	3.8
4. Gujarat	—	—	—	—	1.3	0.9‡
5. Haryana	—	—	—	—	3.2	1.0
6. Himachal Pradesh	—	—	—	—	0.2	—
7. Jammu & Kashmir	—	—	—	—	0.8	0.3
8. Kerala	—	—	—	—	—	—
9. Madhya Pradesh	—	—	15.6	24.7	28.0	10.9
10. Maharashtra	—	—	24.4	34.0	15.7	4.4
11. Manipur	—	—	—	—	—	—
12. Meghalaya	7.1	57.3*	4.5	17.3	—	—
13. Mysore	—	—	17.2	47.6	4.2	1.1
14. Nagaland	—	—	—	—	—	—
15. Orissa	51.7	379.7*	30.1	149.9	6.0	5.3
16. Punjab	—	—	—	—	4.4	1.2
17. Rajasthan	—	—	0.4	0.2	13.0	4.5
18. Tamil Nadu	—	—	0.2	0.8	0.6	0.4
19. Tripura	9.4	68.0	8.6†	54.6†	—	—
20. Uttar Pradesh	15.6	128.5	—	—	52.3	17.8
21. West Bengal	461.1	3,469.1*	62.3	353.5*	1.3	1.1
22. Andaman & Nicobar Islands	—	—	—	—	—	—
23. Arunachal Pradesh	—	—	—	—	—	—
24. Dadra & Nagar Haveli	—	—	—	—	—	—
25. Delhi	—	—	—	—	0.1	—
26. Goa, Daman & Diu	—	—	—	—	—	—
27. Mizoram	—	—	—	—	—	—
28. Pondicherry	—	—	—	—	—	—
All India	818.6	5,710.8	295.2	1,126.8	142.3	53.5

¶ Thousand bales of 180 Kgs. each. * Based on the results of crop cutting surveys.
† Last year's data has been repeated in the absence of information for the current year from the State Government. ‡ Estimated.

STATEWISE AREA AND PRODUCTION OF PRINCIPAL CROPS 1971–72

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	**Groundnut**		**Castorseed**		**Sesamumseed**	
	Area	Production	Area	Production	Area	Production
1. Andhra Pradesh	1,523.5	1,164.2*	279.5	51.1*	248.6	35.9*
2. Assam	—	—	1.9	0.8	10.3	4.9
3. Bihar	4.2†	2.6†	4.9†	2.0†	32.4†	10.8†
4. Gujarat	1,778.4	1,540.7*	53.3	47.0*	120.7	42.7*
5. Haryana	8.7	7.4	—	—	3.0	0.9
6. Himachal Pradesh	1.2	1.5	—	—	8.4	2.0
7. Jammu & Kashmir	—	—	—	—	6.7	1.9
8. Kerala	15.4	16.8	—	—	11.8	3.7
9. Madhya Pradesh	463.4	266.7*	5.3	2.0	330.1	37.8*
10. Maharashtra	750.5	467.7*	3.5	0.8	127.4	30.1*
11. Manipur	—	—	—	—	—	—
12. Meghalaya	—	—	—	—	0.4	0.2
13. Mysore	939.2	684.4*	33.9	19.0*	77.6	23.1*
14. Nagaland	—	—	—	—	—	—
15. Orissa	75.9	94.8	22.2	16.1	86.4	48.7
16. Punjab	173.1	159.5*	—	—	15.0	6.0
17. Rajasthan	234.6	157.9*	2.1	0.6	642.1	82.9*
18. Tamil Nadu	939.5	953.6*	8.7	3.6	130.7	42.5
19. Tripura	—	—	—	—	2.2	0.9
20. Uttar Pradesh	327.8	187.9*	1.1†	0.8†	539.3	76.0
21. West Bengal	—	—	—	—	14.2	8.1
22. Andaman & Nicobar Islands	—	—	—	—	—	—
23. Arunachal Pradesh	—	—	—	—	—	—
24. Dadra & Nagar Haveli	—	—	—	—	—	—
25. Delhi	—	—	—	—	—	—
26. Goa, Daman & Diu	—	—	—	—	—	—
27. Mizoram	—	—	—	—	0.1†	—
28. Pondicherry	4.2	6.2	—	—	0.7	0.3
All India	7,239.6	5,711.9	416.4	143.8	2,408.1	459.4

STATEWISE AREA AND PRODUCTION OF PRINCIPAL CROPS 1971–72 — (*Contd.*)

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	**Rapeseed & Mustard**		**Linseed**		**Total five major oilseeds**	
	Area	Production	Area	Production	Area	Production
1. Andhra Pradesh	0.6	0.1	19.9	2.8	2,072.1	1,254.1
2. Assam	135.6	63.6*	0.7	0.3	148.5	69.6
3. Bihar	84.7†*	49.0†	71.0†	27.5†	197.2	91.9
4. Gujarat	35.2	16.1	—	—	1,987.6	1,646.5
5. Haryana	165.0	92.0*	0.5	0.3	177.2	100.6
6. Himachal Pradesh	4.4	1.3	6.7	1.4	20.7	6.2
7. Jammu & Kashmir	24.9†	18.6†	5.9†	3.8†	37.5	24.3
8. Kerala	—	—	—	—	27.2	20.5
9. Madhya Pradesh	205.2	70.1*	623.6	167.0*	1,627.6	543.6
10. Maharashtra	4.6	1.0	247.6	50.3	1,133.6	549.9
11. Manipur	—	—	—	—	—	—
12. Meghalaya	5.0	2.0*	—	—	5.4	2.2
13. Mysore	2.7	0.8	56.0	15.9*	1,109.4	743.2
14. Nagaland	—	—	—	—	—	—
15. Orissa	57.6	28.8	13.4	5.8	255.5	194.2
16. Punjab	126.5	80.3	2.5	1.3	317.1	247.1
17. Rajasthan	374.6	115.7*	94.2	29.6*	1,347.6	386.7
18. Tamil Nadu	0.5	0.1	—	—	1,079.4	999.8
19. Tripura	4.0	1.6	—	—	6.2	2.5
20. Uttar Pradesh	2,248.8	873.6	758.6	190.6	3,875.6	1,328.9
21. West Bengal	108.2†	35.7†*	43.6†	13.2†	166.0	57.0
22. Andaman & Nicobar Islands	—	—	—	—	—	—
23. Arunachal Pradesh	—	—	—	—	—	—
24. Dadra & Nagar Haveli	—	—	—	—	—	—
25. Delhi	1.0	0.2	—	—	1.0	0.2
26. Goa, Daman & Diu	—	—	—	—	—	—
27. Mizoram	—	—	—	—	0.1	—
28. Pondicherry	—	—	—	—	4.9	6.5
All India	3,589.1	1,450.6	1,944.2	509.8	15,597.4	8,275.5

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* Based on results of random sample crop cutting surveys.

† 1970-71 figures repeated in the absence of data for 1971-72.

STATEWISE AREA AND PRODUCTION OF PRINCIPAL CROPS 1971-72

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	**Sugarcane**			**Dry Chillies**		**Dry Ginger**
	Area	Production (Cane)	Production (Gur)	Area	Production	Area
1. Andhra Pradesh	125.5	11,205.8*	1,163.1*	191.6	94.5	0.90
2. Assam	33.8	1,274.0*	113.4*	8.8	5.6	—
3. Bihar	141.9	4,465.3*	446.5*	11.6	6.2*	—
4. Gujarat	36.4	1,849.0	184.9	18.1	12.9	0.94
5. Haryana	114.0	5,140.0*	514.0*	12.1	8.9	0.03
6. Himachal Pradesh	3.3	42.0	4.2	0.5	0.1	2.22
7. Jammu & Kashmir	2.1	21.8	2.2	0.8	1.7	—
8. Kerala	7.6	391.1	39.1	3.2	2.7	11.87
9. Madhya Pradesh	59.9	1,623.0	162.3	40.3	11.1*	1.11
10. Maharashtra	181.8	11,494.5*	1,297.5*	137.6	70.9	0.53
11. Manipur	—	—	—	—	—	—
12. Meghalaya	0.2	6.6*	0.7*	1.1	0.6	—
13. Mysore	106.8	8,775.9*	877.6*	106.3	32.4	1.05
14. Nagaland	—	—	—	—	—	—
15. Orissa	33.7	1,940.9	194.1	30.9	18.4	1.88
16. Punjab	104.0	4,070.0*	407.0*	19.0	19.4	—
17. Rajasthan	27.6	1,203.4*	120.3*	41.5	24.2	0.10
18. Tamil Nadu	120.7	9,793.1*	995.7*	80.0	115.5	0.80
19. Tripura	2.8†	100.7†	10.1†	1.2	0.4	0.31
20. Uttar Pradesh	1,274.1	49,662.7*	4,966.3*	19.3†	5.3†	—
21. West Bengal	38.3†	2,075.2†*	207.5*†	8.5	7.4	1.60
22. Andaman & Nicobar Islands	—	—	—	—	—	—
23. Arunachal Pradesh	—	—	—	—	—	—
24. Dadra & Nagar Haveli	—	—	—	—	—	—
25. Delhi	1.0	5.1	0.5	0.7	0.7	—
26. Goa, Daman & Diu	0.6†	40.0†	3.5†	—	—	—
27. Mizoram	0.3	13.1*	1.3*	0.6†	0.3†	0.16†
28. Pondicherry	1.6	185.0	18.5	0.1	0.1	—
All India	2,418.0	115,378.2	11,730.3	733.8	439.3	23.50

STATEWISE AREA AND PRODUCTION OF PRINCIPAL CROPS 1971-72 — (*Contd.*)

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	**Dry Ginger**	**Turmeric**		**Black Pepper**	
	Production	Area	Production	Area	Production
1. Andhra Pradesh	0.30	21.6	47.0	—	—
2. Assam	—	4.7	2.8	—	—
3. Bihar	—	8.5	15.2	—	—
4. Gujarat	0.71‡	—	—	—	—
5. Haryana	0.07	—	—	—	—
6. Himachal Pradesh	0.77	—	—	—	—
7. Jammu & Kashmir	—	—	—	—	—
8. Kerala	23.31	4.2	4.4	116.34	25.10
9. Madhya Pradesh	1.07	0.3	0.3	—	—
10. Maharashtra	0.43	9.5	11.5	—	—
11. Manipur	—	—	—	—	—
12. Meghalaya	—	2.3	1.5	—	—
13. Mysore	1.50	1.6	3.3	2.05	1.00
14. Nagaland	—	—	—	—	—
15. Orissa	1.75	13.2	13.0	—	—
16. Punjab	—	—	—	—	—
17. Rajasthan	0.16	0.2	0.2	—	—
18. Tamil Nadu	0.71	10.6	39.8	0.23	0.05
19. Tripura	0.30	0.7	0.7	—	—
20. Uttar Pradesh	—	0.7	0.9	—	—
21. West Bengal	2.50	1.2	3.3	—	—
22. Andaman & Nicobar Islands	—	—	—	—	—
23. Arunachal Pradesh	—	—	—	—	—
24. Dadra & Nagar Haveli	—	—	—	—	—
25. Delhi	—	—	—	—	—
26. Goa, Daman & Diu	—	—	—	—	—
27. Mizoram	0.20†	—	—	—	—
28. Pondicherry	—	—	—	0.03	0.01
All India	33.78	79.3	143.9	118.65	26.16

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* Based on the results of crop cutting surveys.

† Last year's data adopted in the absence of data for the current year.

‡ Estimated in the absence of data from State Govt. for 1971-72.

STATEWISE AREA AND PRODUCTION OF PRINCIPAL CROPS 1971–72

Area : Thousand hectares ; Production : Thousand tonnes

States/Union Territories	Banana**		Tapioca		Potato		Tobacco	
	Area	Production	Area	Production	Area	Production	Area	Production
1. Andhra Pradesh	16·2	209·5	3·6	22·1	0·5	1·5	225·1	194·1*
2. Assam	17·2	227·0	0·4	1·8	25·8	130·5*	8·7	6·6
3. Bihar	7·5	42·9*	—	—	97·8	967·3*	12·5	12·4
4. Gujarat	14·0	262·5	—	—	4·2	110·7	85·6	116·4*
5. Haryana	—	—	—	—	4·8	74·9	0·5	0·3
6. Himachal Pradesh ..	—	—	—	—	13·8	49·5	0·7	0·3
7. Jammu & Kashmir ..	—	—	—	—	1·2	5·8	0·2	0·5
8. Kerala	48·8	369·0	303·3	5,429·3*	—	—	0·8	1·7
9. Madhya Pradesh	2·7	56·6*	—	—	15·7	169·1*	2·4	1·3
10. Maharashtra	38·6	964·3*	—	—	11·5	44·6	13·3	6·6*
11. Manipur	—	—	—	—	—	—	—	—
12. Meghalaya	2·8	37·2	7·4	5·9	15·9	78·3*	0·5	0·3
13. Mysore	16·6	124·4	0·9	9·2	10·4	45·7	39·6	16·6
14. Nagaland	—	—	—	—	—	—	—	—
15. Orissa	13·7	107·6	—	—	23·8	259·0	13·2	10·7
16. Punjab	—	—	—	—	12·9	166·4	0·1	0·1
17. Rajasthan	—	—	—	—	1·8	5·5	5·6	3·8
18. Tamil Nadu	44·7	796·7	38·7	463·4	11·9	100·0	11·5	17·2
19. Tripura	2·1	18·4	0·1	0·7	2·9	23·7	1·4	0·6
20. Uttar Pradesh	0·6	7·5	—	—	178·6	1,680·1	11·1	11·0
21. West Bengal	—	—	—	—	62·4†	917·5†	12·1	8·6
22. Andaman & Nicobar Islands	0·3	2·6	—	—	—	—	—	—
23. Arunachal Pradesh ..	—	—	—	—	—	—	—	—
24. Dadra & Nagar Haveli ..	—	—	—	—	—	—	—	—
25. Delhi	—	—	—	—	0·4	3·2	0·1	0·2
26. Goa, Daman & Diu ..	—	—	—	—	—	—	—	—
27. Mizoram	0·6	7·8	—	0·1	0·1	0·4*	—	—
28. Pondicherry	—	—	0·5†	6·0†	—	—	—	—
All India	226·4	3,234·0	354·9	5,938·5	496·4	4,833·7	445·0	409·2

** Relate to 1970-71 (Final Estimate). * Based on the results of crop cutting surveys. † Last year's figures repeated.

FERTILISER INDUSTRY

WITH very large financial outlays being earmarked for the fertiliser industry, this sector has rapidly developed into a modernised industry.

The growth of the fertiliser industry during the Plan periods is given in the table below. It was only in the Third Plan that the industry received a big boost it deserved with a total investment of Rs. 1,750 million. At the end of 1966-67, the total investments in the industry mounted to Rs. 5,450 million — Rs. 3,570 million in the public sector and Rs. 1,880 million in the private sector. By the end of 1973-74, this is expected to grow up to Rs. 13,000 million for a production capacity of 5·15 million tonnes of nitrogenous and 230,000 tonnes of phosphatic fertilisers (measured in terms of nutrient).

GROWTH OF FERTILISER INDUSTRY

Period	Capacity as at the end of in '000 tonnes		Investments (Rs. million)		
	N	P_2O_5	Public sector	Private sector	Total
1. Upto the end of March 1951	16·5	19·8	180	20	200
2. 1951-56	98·8	45·3	370	30	400
3. 1956-61	238·4	82·5	570	30	600
4. 1961-66	542·9	213·7	1,450	300	1,750
5. 1966-67	1,024·0	412·0	1,000	1,500	2.500
Total			3,570	1,880	5,450
6. 1969-74	5,150·0	233·0	7,500	5,500	13,000
7. 1974-79	7,750·0	420·0	—	— 70	9.000
8. 1979-81	9,250·0	480·0	—	—	5,500

Source : "Fertiliser Scene — Fourth Plan" Proceedings No. 2 of the Fertiliser Institute of the Fertiliser Association of India.

LOCATION OF THE INDUSTRY

There are more than 60 fertiliser factories of various sizes in the private as well as the public sector. Many of these however make fertiliser as a subsidiary of their main products.

In the private sector there are 35 public limited concerns manufacturing fertilisers as the main product. 8 of these manufacture nitrogenous fertilisers and 27 phosphatic fertilisers.

The State-wise break-up of the nitrogenous fertiliser manufacturing units is as follows :

2 in Uttar Pradesh, and one each in Andhra Pradesh, Bihar, Gujarat, Rajasthan, Tamil Nadu and West Bengal.

The State-wise break-up of the phosphatic fertiliser manufacturing unit is :

Maharashtra 5, Tamil Nadu 5, Andhra Pradesh 4, Gujarat 4, Mysore 2, West Bengal 2, and one each in

Madhya Pradesh, Rajasthan, Uttar Pradesh, Delhi and Assam.

Public Sector : Following are the public sector units :

1. Fertilizer Corporation of India Ltd., which has five units, one each at Namrup — Assam ; Sindri — Bihar ; Nangal — Punjab ; Trombay — Maharashtra and Gorakhpur — Uttar Pradesh. (Project under construction of FCI are Durgapur — West Bengal and Barauni — Bihar to commence production in 1973, Talcher — Orissa and Ramagundam — Andhra Pradesh in 1975 and Korba — Madhya Pradesh in 1974.)

2. Fertilisers and Chemicals, Travancore Ltd. (FACT) Udyogmandal (Alwaye), Kerala. (Newly set up unit at Ambalamedu, Cochin, will be commissioned in 1973.)

3. Madras Fertilizers Ltd., at Madras — Tamil Nadu. It is a joint venture of the Government of India and Messrs. Amoco India Ltd., U.S.A., holding 51 per cent and 49 per cent of the shares respectively.

Besides the above mentioned units Neyveli Lignite Corporation, Neyveli — Tamil Nadu, the units of Hindustan Steel Ltd., at Bhilai — Madhya Pradesh, Rourkela — Orissa and Durgapur — West Bengal and Hindustan Zinc Ltd., Debari — Rajasthan also produce fertiliser as a subsidiary activity.

Bihar State Superphosphate Factory at Dhanbad is the only unit in the State Sector at present.

PRODUCTION & CAPACITY

In terms of production and capacity, fertiliser industry as a whole, has made rapid strides. Indigenous production in this sector meets about 53 per cent of the demand. During the First Plan period, only ammonium sulphate fertilisers were produced. It was during the Second Plan period that the product diversification was introduced in the form of ammonium sulphate nitrate, urea and calcium ammonium nitrate. Even then a sizeable portion was accounted for by ammonium sulphate. In the Third Plan and subsequent annual plan periods urea and calcium ammonium nitrate claimed a lion's share of total production.

Nitrogenous Fertilisers : Originally, the entire capacity in nitrogenous fertilisers was confined to the public sector. In 1960–61, private sector came with a small share. Out of the nine units accounting for a production of 98,000 tonnes, 6 were public sector units accounting for about 89,000 tonnes of N and the rest were private sector units. The total number of producing units rose from 9 in 1960–61 to 13 in 1965–66 and 19 in 1969–70. The number of public sector units stood at 11 in 1969–70 accounting for 58 per cent of the aggregate production. The public sector predominated in both capacity and production till 1965–66. With the removal of controls in 1965, the industry witnessed the entry of private sector in a large way. The growth of private sector units in terms of size and production in nitrogenous fertilisers (in terms of plant nutrient N) in comparison with the growth in public sector is shown below :

Year	Private Sector			Public Sector			Total	
	No. of units	Production ('000 tonnes)	Share of production %	No. of units	Production ('000 tonnes)	Share %	No. of units	Production ('000 tonnes)
1965–66	4	15	6·4	9	218	93·6	13	233
1968–69	7	142	26·2	11	401	73·8	18	43
1969–70	8	298	41·6	11	418	58·4	19	716
1970–71	—	—	—	—	—	—	—	830
1971–72	—	—	—	—	—	—	—	950

The total installed capacity of nitrogenous fertiliser industry (in terms of plant nutrient N) as at the end of 1971 was of the order of 1·460 million tonnes. The share of public sector units was 824,000 tonnes (57 per cent). When the projects under implementation are completed the public sector will dominate the scene by controlling 71 per cent.

The capacity under implementation stage is estimated at 1·668 million tonnes, making a total of 3·012 million tonnes. In addition to this, the capacity approved in principle, amounted to 1·493 million tonnes. The Fourth Five Year Plan has placed a target of 3 million tonnes in terms of capacity and 2·5 million tonnes in terms of production of nitrogenous fertilisers.

Taking into consideration the slow rate of progress, and the large gestation period, the industry will be able to attain a total capacity of only 2·6 million tonnes by 1973–74. Thus, a shortfall of 400,000 tonnes in capacity is on the cards. This is confirmed from the slow progress of the projects under implementation in both the public and private sectors. The break-up of the existing capacity in both the sectors as well as that under implementation stage is set out below :

Name of Factory	Capacity in terms of N ('000 tonnes)
Projects in Production	
A. *Public Sector*	
1. F C I	
(*a*) Sindri	90
(*b*) Nangal	80
(*c*) Trombay	81
(*d*) Gorakhpur	80
(*e*) Namrup	45
2. FACT (Alwaye)	82
3. Neyveli lignite	70
4. Hindustan Steel (Rourkela)	120
5. Madras Fertilizer	164
6. Others (from Coke Oven plants) ..	12
Total	824

Name of Factory	Capacity in terms of N ('000 tonnes)
B. *Private Sector*	
1. GSFC, Gujarat	216
2. IEL, Kanpur	200
3. DCM, Kota	110
4. Coromandel	80
5. E. I. D. Parry	16
6. New Central Jute	10
7. Others (from Coke Oven)	8
Total	640
Total capacity in production (A + B)	1,464
Projects under Implementation	
A. *Public Sector*	
1. F C I	
(*a*) Durgapur	152
(*b*) Namrup (Expansion)	152
(*c*) Barauni	152
(*d*) Talcher	229
(*e*) Ramagundam	229
2. F A C T (Cochin Phase I)	152
3. IFFCO	215
Total	1,281
B. *Private Sector*	
1. Zuari Agro, Goa	175
Total capacity under implementation (A + B)	1,456

Phosphatic Fertilisers : In sharp contrast with the nitrogenous fertiliser industry, the phosphatic fertilisers were largely confined to the private sector as seen in the table below and production was accounted for by single superphosphates.

Year	Private Sector			Public Sector			Total	
	No. of units	Production ('000 tonnes)	Share %	No. of units	Production ('000 tonnes)	Share %	No. of units	Production ('000 tonnes)
1965–66	22	90	81·1	6	21	18·9	28	111
1968–69	27	157	74·8	7	53	25·2	34	210
1969–70	27	180	81·1	7	42	18·9	34	222
1970–71	—	—	—	—	—	—	—	229
1971–72	—	—	—	—	—	—	—	293

It is evident that the share of the public sector units in terms of production rose from 17·3 per cent in 1960–61 to 25·2 per cent in 1968–69 but declined to 18·9 per cent in 1969–70.

The installed capacity of phosphatic fertiliser stood at 500,000 tonnes in 1971-72 (184,000 tonnes in public sector and 316,000 tonnes in private sector). The capacity under implementation amounted to 443,000 tonnes and the capacity approved in principle but not yet formed up was 544,000 tonnes.

Various Types: Following table shows the production of various types of fertilisers with the number of units and their installed capacity.

('000 tonnes)

Name of Industry	1971-72		
	No. of Units	Installed Capacity	Actual Production
Amm. Sulphate ..	13	978	622
Amm. Phosphate ..	2	186	96
Calcium amm. Nitrate	2	800	410
Double Salt	1	122	27
Nitro-phosphate ..	1	270	204
Urea	10	1,878	1,237
Amm. Chloride ..	2	69	32
Di-Ammonium Phosphate	1	108	53
Superphosphate ..	28	1,300	759
Triple superphosphate	1	27	9
Urea Amm. Phosphate	1	260	237
Complex NPK ..	2	401	77

Manures and Composts : The night soil compost scheme has been introduced in Tamil Nadu, Rajasthan, Punjab, Orissa and Mysore. It will cover 500 of the large panchayats in the area for which the Central Government will provide assistance to the tune of Rs. 2,000 per panchayat. The coverage under green manuring increased from 8·5 million hectares in 1969–70 to 10·4 million hectares in 1970–71.

The fertiliser industry is one of the major industries of the world, with a total current output of 200 million tonnes in 1969–70, of gross weight of products (containing 66 million tonnes of Nutrients). The ex-factory sale value amounts to approximately $7,000 million. In agricultural products, it is stated that fertiliser is exceeded in tonnage only by wheat, maize and milk.

CONSUMPTION

With intensive farming, nominal increase of 1·37 per cent per year in the cropped area, and other efforts to make the country self-sufficient in food, one would have expected a commensurate increase in the consumption of fertilisers.

The actual performance, however, shows a decline in the rate of consumption in recent years.

In 1970–71 the rate of growth of consumption of nitrogenous phosphatic and potassic fertilisers was only 6·2 per cent compared with 13 per cent in 1969–70 and 14·3 per cent in 1968–69. The rate of growth is also considerably lower than the 14·5 per cent envisaged during the Fourth Plan.

('000 tonnes)

	1967–68	1968–69	1969–70	1970–71
Nitrogen(N) ..	1,035	1,208	1,306	1,426
Phosphatic(P_2O_5)	335	382	420	461

The consumption of fertilisers per hectare of agricultural land in India works out at 6·87 kgs. of N, 1·66 kgs. of P and 0·92 kgs. of K respectively. The levels are far below that of other countries. (Figures in kgs.).

Country	N	P_2O_5	K_2O	Total
Asia	6·25	2·72	2·02	10·99
China (Taiwan)	189·58	44·12	68·63	302·33
Japan	136·76	105·10	104·95	346·81
Rep. Korea	122·34	51·95	30·46	204·75
India	6·87	1·66	0·92	9·45
Philippines	6·75	4·80	4·26	15·81

The rate of growth of the consumption of fertilisers has been declining in the last three years. Apart from inadequate marketing facilities and lack of purchasing power of the farmers, natural calamities and certain other facters like inadequate irrigation facilities are also responsible for the decline.

The table below portrays vividly how actual consumption fell short of targeted levels during the Fourth Plan.

Year	Target	Actual
1966–67	1·57	1·20
1967–68	2·15	1·17
1968–69	2·80	1·67
1969–70	2·80	1·99
1970–71	3·30	2·18
1971–72*	4·03	2·60

* Provisional.

In five States, namely Andhra Pradesh, Maharashtra, Uttar Pradesh, Tamil Nadu, and Punjab account for more than 57 per cent of total consumption. The States having very low consumption of fertiliser per agricultural land are Madhya Pradesh, Assam, Rajasthan, Jammu and Kashmir, Himachal Pradesh and Orissa.

The States which showed a sharp decline in consumption of nitrogenous fertilisers during 1970–71 were Andhra Pradesh, Kerala and Uttar Pradesh. On the other hand, the two States, Assam and Madhya Pradesh, recorded increase of 42·9 per cent and 48·4 per cent respectively in 1970–71. Statewise, the consumption of phosphatic fertiliser has recorded a fall in Bihar, Kerala and Uttar Pradesh.

IMPORTS

With the increase in indigenous production, imports were reduced in 1969–70. Total value of imports of manufactured fertilisers stood at Rs. 890 million in 1971–72 against Rs. 611 million in 1970-71 and Rs. 670 million in 1969–70. As there is insignificant manufacture of potassic fertilisers, the country has to depend on imports. The trend in imports of fertilisers is given in table below :

('000 tonnes)

Year	N	P	K	Total
1968–69	847	138	200	1,185
1969–70	667	94	164	925
1970–71	477	32	226	735

GENERAL

Potassium Fertilizers : To substitute potassium sulphate which is being imported at present, the Central Salt and Marine Chemicals Research Institute in Bhavnagar, Gujarat, has developed a process for manufacturing potassium chloride and potassium Schoenite from mixed salts.

The institute has set up a commercial plant at Kandla in the private sector having a capacity of manufacturing 1,000 tonnes of potassium chloride and 2,000 tonnes of potassium schoenite (epsom salt) annually. The plant is the first of its kind in the country set up to manufacture potassium fertilisers on a large scale.

Development: In order to increase the production there are proposals for the establishment of fertiliser factories at Haldia (W. Bengal) and Paradeep (Orissa) and expansion of Gorakhpur, Nangal and Cochin factories. Punjab State Industrial Development Corporation also propose to put up a plant at Bhatinda.

Following are the proposals in the private sector in various stages of finalisation.

1. Oriental Coal Company — plant at Kamptee, Maharashtra.
2. Southern Petrochemical Industries Corporation — a plant at Tuticorin, Tamil Nadu.
3. Tata Chemicals Ltd.— a plant at Mithapur, Gujarat.
4. Bharat Steel Tubes — a plant at Panipat, Haryana.
5. Malabar Fertilizers & Chemicals Ltd. — a plant at Mangalore, Mysore.
6. Expansion programme of Shriram Chemicals Plant at Kota.

Training : Fertilizer Corporation of India runs a training institute which provides refresher courses for all categories of employees.

Research : Fertiliser Association of India at 85, Sunder Nagar, New Delhi 110003, has set up a fertiliser institute which does research on the pathological problems of the industry ; holds lectures, group discussions and publishes papers on the research done. The institute also holds courses in marketing from time to time.

Some Large Units :

1. Gujarat State Fertilizers Co. Ltd., Fertilizer Nagar, near Baroda, Gujarat.
2. E.I.D. Parry Ltd., Dare House, P.B. No. 12, Madras-600001, Tamil Nadu.
3. Coromandel Fertilisers Ltd., 126, Sarojini Devi Road, Secunderabad-500003, Andhra Pradesh.
4. Shriram Chemical Industries, Naaz Bldg. 1, Jhandewalan, New Delhi-110055.
5. New Central Jute Mills Co. Ltd., Varanasi-221001, Uttar Pradesh.
6. Andhra Fertilisers Ltd., Tadepalle-534101, Andhra Pradesh.
7. Chamundi Chemicals & Fertilisers Ltd., Metagalli, P.O. Mysore.
8. Dharamsi Morarji Chemical Co. Ltd., Prospect Chambers, 317/21, Dr. D. Naoroji Road, Bombay-400001, Maharashtra.
9. Ralli Chemical Works, Magarwara, Uttar Pradesh.
10. D.C.M. Chemical Works, Naaz Bldg. 1, Jhandewalan, New Delhi 110055.
11. Phosphate Co. Ltd., 14, N. Subhas Road, Calcutta-700001, West Bengal.
12. Indian Explosives Ltd., 17/3, M. G. Marg, Kanpur-208001, Uttar Pradesh.

FOURTH FIVE YEAR PLAN

The variations in the estimated demand and indigenous production at the end of the Fourth Plan (1973–74) estimated by three Government agencies are set out in table below.

(Million tonnes)

	N		P		K
	Demand	Production	Demand	Production	Demand
1. Fertiliser Assoc. of India	2·0	1·8	0·7	0·7	0·4
2. Ministry of Food & Agriculture ..	3·75	3·77	1·73	1·08	1·10
3. Planning Commission	3·2	2·5	1·4	0·9	0·90

Publication : "Fertiliser News" (monthly) brought out by the Fertiliser Association of India.

FOOD

FROM the point of view of food generally the position is roughly as follows: **Surplus areas :** Madhya Pradesh, Punjab, Haryana, Orissa, Andhra Pradesh. **Self-sufficient areas :** Uttar Pradesh, Rajasthan, Tamil Nadu, Mysore, Assam. **Deficit areas :** Maharashtra, Gujarat, Himachal Pradesh, Bihar, West Bengal, Kerala, Kashmir, Tripura, Nagaland and Arunachal Pradesh. Manipur and Meghalaya are marginal.

Punjab, Haryana and Madhya Pradesh are generally surplus in wheat whilst Orissa, Madhya Pradesh, Andhra Pradesh, Punjab and Haryana are surplus in rice.

PRODUCTION

Foodgrains production in 1971-72 was estimated at 104·7 million tonnes. This is 3·8 million tonnes less than the previous year and represents 3·5 per cent fall in production. Production of pulses fell by about 0·8 million tonnes in 1971-72.

Total Internal Procurement and Issue of Foodgrains.

('000 tonnes)

Calendar Year	Procured by			Issued through		
	State	Centre	Total	State	Centre	Total
1968..	3,575	3,230	6,805	6,687	3,534	10,221
1969..	2,746	3,635	6,381	4,947	4,438	9,385
1970..	2,181	4,533	6,714	4,146	4,695	8,841
1971..	1,528	7,332	8,860	3,224	4,602	7,826

SUPPLY

The demand and supply of cereals from 1969 to 1971 :

('000 tonnes)

		1969	1970	1971
Procurement				
Opening Stocks in Godowns	States	2,746	2,181	1,528
	Centre	3,635	4,533	7,332
	Total	6,381	6,714	8,860
Off-take from Godowns	States	4,947	4,146	3,224
	Centre	4,438	4,695	4,602
	Total	9,385	8,841	7,826

The balance sheet of foodgrains distributed by Governments during 1969, 1970 and 1971 was as follows :—

('000 tonnes)

	1969	1970	1971
Opening Stock with States	1,975	1,532	1,676
Centre	2,016	2,921	3,899
Procurement	6,805	6,381	6,714
Imports..	3,872	3,631	2,054
Stocks with States at the end of the year ..	1,532	1,676	1,540
Central Reserves at the end of the year ..	2,921	3,899	6,606

Ration Shops: At the end of 1971, the number of fair-price and ration shops in the country stood at 121,000 as against 122,038 functioning at the end of 1970. The total population covered under statutory and informal rationing was about 15·2 million and 292·4 million totalling 307·6 million at the end of 1971 as against a total of 299·9 million in 1970.

Procurement : Procurement of rice (including paddy) in 1970-71 marketing season amounted to 3·194 million tonnes while the total procurement of coarse grains (maize & millets) during 1970-71 was 0·492 million tonnes as compared to 0·274 million tonnes in the previous season. Total procurement of wheat during 1971-72 season (out of 1970-71 crop) amounted to 5·101 million tonnes while in 1970-71 it was 3·192 million tonnes.

IMPORTS (1968-71)

The imports of cereals over the years were as follows:

Figures in million tonnes and value in Rs. million respectively are: 1968: 5·694, 3,612·0; 1969: 3·872, 2,530·1; 1970: 3·631, 2,075·5; 1971: 2·054, 1,234·6.

The imports of individual grains were as follows:

(in million tonnes)

	1969	1970	1971
Rice	0·487	0·206	0·240
Wheat (including flour) ..	3·090	3·425	1·814
Others	0·295	..	—
TOTAL ..	3·872	3·631	2·054

Countries from which imports were obtained from 1969 to 1971 with quantity (in million tonnes) were as follows:

Country	Quantity		
	1969	1970	1971
U.S.A.	2·597	2·553	1·233
Australia	0·079	0·082	0·120
Canada	0·586	0·664	0·459
U.A.R.	0·060	0·092	0·045
Burma	0·203	0·092	0·110
Others	0·347	0·146	0·083
TOTAL	3·872	3·631	2·054

Countries from which wheat and rice were imported during the year 1971: (quantity in million tonnes)

	Wheat and flour	Rice
U.S.A.	1·2336	—
Australia	0·1209	—
Burma	—	0·1105
Canada	0·4595	—
Thailand	—	0·0836
U.A.R.	—	0·0459
TOTAL ..	1·8140	0·2400

SEED

The Government of India established in 1963 the National Seeds Corporation, F44A, NDSE Part I, New Delhi 110049 for the supply and production of foundation/certified seeds of the high yielding varieties. This Corporation has a large network of about 530 dealers working on commission basis and 67 sale points for distribution of seeds. The total sales amounted to Rs. 46·07 million during 1970-71 as against Rs. 35·53 million during the previous year. It made a nominal profit for the year ending May, 1971.

It provides training and advises the seed processing industry. Small quantities of seeds were also exported to Iraq, Ethiopia and Ghana and the U.A.R. The Corporation also provides certification services to the States.

The Tarai Seeds Development Corporation set up in June, 1969, with loan assistance from the World Bank has a network of 27 distributors and 627 dealers. In Kharif, 1971, seed production was taken up over an area of 5,080 hectares as against 3,960 hectares the previous year. In Rabi, 1971-72, 5,480 hectares were brought under wheat. The Corporation made a net profit of Rs. 0·50 million as against a nominal profit of Rs. 0·021 million last year.

Mechanised Farms: During 1971, three new Central Farms were started. They are located at Chengam in Tamil Nadu (4,000 hectares); Phillaur in Punjab (1,080 hectares); and Lushaichera in the Mizo Hills (400 hectares). The farm at Cannanore (Kerala) started functioning in September, 1970.

The State Farm Corporation which manages these farms sold 30,698 quintals of improved variety seeds in 1970-71. It also helps with land development, levelling and harvesting for private parties on commercial basis. In its second year of working (30th June, 1971) it earned a net profit of Rs. 0·8 million and declared 3·5 per cent dividends.

Other State farms are at Suratgarh, Jetsar, Hirakud (Orissa); Hissar (Haryana); Jullundur (Punjab); Raichur (Madhya Pradesh); Sokichera (Mizoram).

THE FOOD PROBLEM

The *per capita* consumption in India of all food items in terms of calories compares as follows:—Canada: 3,150; U.S.A.: 3,290; U.K.: 3,180; Japan: 2,450; and India: 1,940.

The consumption of foodgrains and pulses in India has been increasing over the last three years at a rate much faster than production.

The increase in population of about 12 million persons per year in itself will require one million tonnes of additional foodgrains each year. With an increase of the *per capita* intake of 100 calories per day, India would require an additional five million tonnes of foodgrains per year.

Buffer Stock: With a view to imparting stability to the country's food economy, the Central Government decided to build a buffer stock during the Fourth Plan period. At the end of June, 1972, the total stocks with the Central and State governments stood at 8·8 million tonnes as against 7·3 million tonnes at the end of 1971. These were inclusive of stocks needed for operational purposes.

Supplies to Bangla Desh: The total quantity of foodgrains and pulses supplied to Bangla Desh during 1972 amounted to 0·902 million tonnes comprising 0·800 million tonnes of wheat, 0·100 million tonnes of rice, and 0·002 million tonnes of pulses. Out of these supplies, 0·650 million tonnes of wheat, 0·100 million tonnes of rice and the entire quantity of pulses were made on a grant basis.

WAREHOUSES

State/Territory	No. of Warehouses		Capacity (tonnes)	
	Central	State	Central	State
Andhra Pradesh	28	38	358,580	88,359
Assam	3	25	18,000	28,615
Bihar	1	41	5,726	88,074
Gujarat	15	29	101,082	41,988
Haryana	7	22	40,725	84,271
Kerala	3	25	12,085	26,622
Madhya Pradesh	6	63	36,926	218,391
Maharashtra	15	53	125,867	189,808
Mysore	7	34	33,251	75,531
Orissa	6	19	16,827	20,225
Punjab	6	57	25,580	142,080
Rajasthan	3	77	49,994	356,461
Tamil Nadu	10	25	227,878	101,322
Uttar Pradesh	9	53	46,800	473,753
West Bengal	16	25	261,703	129,724
Union Territories	2	—	32,013	—
Total	137	586	1,393,037	2,065,224

Warehouses — (*Contd.*)

Special Warehouses on Guarantee Basis		
Assam	2	10,000
Gujarat	8	40,524
Maharashtra	3	67,963
West Bengal	7	219,311
Crash Programme Warehouses		
Tamil Nadu	4	200,000
Andhra Pradesh	17	296,984
Cold Storage Warehouses		
Andhra Pradesh	1	600
West Bengal	1	4,870

Food Corporation : The Food Corporation of India was set up as a statutory body in January, 1965. The Corporation purchased about 6·6 million tonnes of foodgrains out of the 1971-72 crop comprising 4·5 million tonnes wheat, 1·9 million tonnes rice and 0·2 million tonnes coarse grains.

15 rice mills of 4 tonnes capacity have been set up by the Corporation. The *Dry Maize Milling Plant* at Faridabad, the *Dal Mill* at Lucknow and the *Rice Bran Solvent Extraction Plant* at Sembanarkoil are expected to be commissioned shortly.

The storage capacity owned by F.C.I. at the end of November, 1972 stood at 4·381 million tonnes. Including the capacity hired from C.W. Corporation, S. W. Corporation, State Governments and private parties the total availability of storage accommodation was 7,200 million tonnes. An Indian Grain Storage Institute has been established (in collaboration with U.N.D.P.) at Hapur, Punjab for designing suitable storage structures. An agreement has been signed with the World Bank to finance the construction of 10 silo complexes of 20,000 tonnes capacity each, and conventional godowns of 100,000 tonnes capacity. A new design with the minimum use of steel is expected to give a fillip to the construction of additional storage capacity.

Subsidiary Foods : The Food and Nutrition Board has initiated investigations for the development of cottonseed protein for human consumption, fortification of common salt with calcium and development of food from green vegetation and further work on parboiled rice and vegetable milk powder.

Balahar : About 18,000 tonnes were manufactured for distribution as a part of child feeding programme (in cooperation with CARE) in Mysore and Tamil Nadu. A total capacity of about 72,000 tonnes per annum has been created in the country.

Tapioca Flour : A project for setting up edible tapioca flour of 10 tonnes daily capacity for Kerala has been taken up by the Food Corporation.

Fortified Atta : During 1971-72, the total production was 20,000 tonnes in Bombay and Calcutta.

Weaning Food : Production of Bal-Amul, a pre-cooked weaning food, was undertaken on a pilot scale through Kaira Co-operative Union with the assistance of UNICEF. The development of miltone, a protein isolate toned milk from groundnut, has been in progress at the Government dairy in Bangalore. The total quantity of miltone produced during 1971-72 was 0·4 million litres.

Canning Centres : Fifteen community canning and food preservation centres continued to popularise fruit and vegetable preservation and impart training. Four more sub-centres are in the process of being set up. Seventeen mobile food and nutrition extension units located in the States of Andhra Pradesh, Bihar, Gujarat, Kerala, Madhya Pradesh, Maharashtra, Mysore, Orissa, Punjab, Haryana, Rajasthan, Tamil Nadu, Uttar Pradesh and West Bengal continued to promote nutrition education. The units organised 8,000 demonstrations, lectures and film shows during 1971-72.

Modern Bread : During the year 1971-72, 85 million standard loaves were produced as against 57·5 million last year. (For further details see Modern Bakeries Ltd. in chapter on Government Industrial Undertakings.)

PACKAGE PROGRAMME

The Package Programme is now invigorated through three other programmes.

(*a*) The IADP — Intensive Agricultural District Programme — During 1970-71, the programme was operative in 28,300 villages in 15 selected districts. The area under high yielding varieties of crops in these districts during the year was estimated at 2·5 million hectares as against 1·74 million the previous year. It is proposed to extend this programme to 12 more districts (one in Mysore, two in Bihar, two in Punjab and seven in Madhya Pradesh).

(*b*) The HYVP — High Yielding Varieties Programme — This programme was launched in 1966-67.

It covered 9.29 million hectares in 1968-69, 11.4 million hectares in 1969-70, 15.4 million hectares in 1970-71 and 18·0 million hectares in 1971-72.

(*c*) Multiple Cropping Programme — This programme was started in 1967-68. As against the target of increasing the gross cropped area by 9 million hectares during the Fourth Plan, the achievement in 1969-70 was about 1·66 million hectares, in 1970-71 about 1·79 million hectares and in 1971-72 about 1·85 million hectares.

PRICE POLICY

Prices of agricultural commodities are constantly under review by the Agricultural Prices Commission which was set up in January 1965. The Commission makes its recommendations to the Union Ministry.

Training Centres : The four Institutes of Catering Technology and Applied Nutrition at New Delhi, Bombay, Calcutta and Madras trained 1,582 students during 1970-71. The five Foodcraft Institutes at Kalamassery, Panaji, Bangalore, Nagpur and Lucknow trained 450 students in various courses, such as cookery, bakery, confectionery, hotel reception and fruit and vegetable preservation. One more Institute at Hyderabad will soon come up.

FOURTH PLAN

Agricultural production in the Fourth Plan is primarily dependent on intensive agriculture. The plan provides an outlay of Rs. 27,282 million and lays greater emphasis on coordinated research, expansion and reorientation of irrigation practices.

Efforts are made to raise the yield levels of major commercial crops, increase intensity of cropping and improve the agricultural marketing system.

To safeguard against the uncertainties of food imports and fluctuations in agricultural production and also to maintain stability in prices, the Plan proposes to build up sizeable buffer stocks.

It is hoped that the agricultural targets of 129 million tonnes in foodgrains, 15 million tonnes in sugarcane production, about 10·5 million tonnes of oil seeds and 8 million bales of cotton production will be achieved.

FOOD SITUATION IN 1971-72 :

The food situation was grave during 1972 on account of a fall in the production in 1971-72 and damage due to drought in several parts of the country to the 1972-73 kharif crop. In 1971-72 the production declined to 104·7 million tonnes which was 3·8 million tonnes less than last year. Production of cereals fell by 3·0 million tonnes and that of pulses by 0·8 million tonnes. As a result prices had increased throughout the country.

To check the prices and ensure equitable distribution more grains were sold through Fair Price shops. Total offtake from public distribution rose from 7·8 million tonnes in 1971 to 10·6 million tonnes in 1972.

After July, 1972, when there was a further rise in prices the public distribution system stepped up its offtake to 1·1 million tonnes a month against 0·7 million tonnes earlier. These increases were possible because of the sizeable stocks built up over the past few years.

To meet the increased demands the Government has intensified procurement and re-imposed restrictions on the Inter-State movement of coarse kharif cereals. Government has also purchased grains in the international market. Strict austerity measures, including restrictions on guests to be fed, have been re-imposed.

Statutory Rationing : Statutory rationing of foodgrains continued to be in force in Calcutta and Asansol-Durgapur group of towns in West Bengal. In Greater Bombay rationing was applicable to rice only. In other areas informal rationing continued.

IRRIGATION AND POWER PROJECTS

India owns a fifth of the world's irrigated area yet the country suffers from a chronic food shortage. This is largely due to the increase in population from 380 million in 1939 (undivided India) to almost 560 million today.

At the beginning of the period of planned development in 1950 the area under irrigation from all sources was 22·66 million hectares (56 million acres), 9·7 million hectares (24 million acres) from major and medium sources and 12·95 million hectares (32 million acres) from minor irrigation works.

Additional Potential : Additional irrigation potential created from major and medium projects was 2.49 million hectares (6.1 million acres) in the First Plan ; 2.14 million hectares (5.3 million acres) in the second ; 2.23 million hectares (5.6 million acres) in the third ; and 2.02 million hectares (4.9 million acres) during the three Annual Plans 1966-69, bringing the total up to the end of March 1969 to 8.88 million hectares (21.9 million acres).

The total potential created from minor schemes upto the end of March, 1969, is estimated at 19·1 million hectares (47·3 million acres).

Many new medium and major schemes were taken up as part of the Fourth Plan.

Water Resources : India has water resources which if put to use, can irrigate 82 million hectares (203 million acres), out of a total culturable area of 181 million hectares (447 million acres).

The total surface water resources of the country have been estimated at 1675 milliard cubic metres (1356 million acre feet) of which the utilisable quantity would be 550 milliard cubic metres (450 million acre feet).

When planning was started in 1950 only about 93 milliard cubic metres (76 million acre feet) of this quantum of water had been used to develop an irrigation potential of 22 million hectares (56 million acres).

By the end of March, 1969, a total of 205 milliard cubic metres (166 million acre feet) was utilised (37 per cent of the total resources) leaving a substantial quantum of water still to be exploited.

Number of Schemes : From 1950 to 1970, in two decades of planning, 557 major and medium schemes were taken up for construction. Of these over 325 schemes were completed. The rest of the schemes are continuing in the Fourth Plan. (See also Chapter on Agriculture).

POWER PROBLEM (Position as on 15th February, 1973).

When planning started (in 1950-51) in India the installed capacity was 2·3 m. kw. In three successive Plans it doubled to reach 10·15 m. kw., and was raised to 17 million kw. by 1971-72. As a result the chronic power shortage disappeared. However, with industrialisation and electrification, shortages between 8·25 per cent began to appear in West Bengal, Maharashtra, Gujarat, Haryana, Punjab, Uttar Pradesh, Andhra Pradesh and Tamil Nadu.

At the end of the Fourth Plan (1973-74) shortage is expected to be 4 million kw. or 25 per cent of anticipated demand of 18·1 million kw. It will be more if the industrial activity picks up.

Though expenditure on new schemes for generation and distribution has exceeded Rs. 1,000 million, it is still not able to meet the demand. The target of adding 4 million kw. every year during the Fifth Plan is not likely to meet the demand. Experts forecast a shortage of 10-million kw. by the end of the Fifth Plan.

Both industrial and agricultural sectors had been severely hit and a total loss of almost Rs. 10,000 million was estimated with industrial production alone suffering a loss of 300 million per month. Drought (see Chapter on Droughts) had contributed largely to this shortage since a large number of generators are hydro-electric units.

The other causes are : Inadequate maintenance, construction delays due to problems of securing indigenous machinery, faulty planning, shortage of technical personnel, the slow progress in forming a national grid system, transmission losses (amounting to 16 per cent resulting in material loss of Rs. 50 million), and, to some extent, shortage of funds. The position had been so bad that almost 3 per cent of national income was wiped out.

The position in the States is given below :

Assam : Inefficient operation and maintenance of thermal stations was the cause of power shortage in Assam. However, there was no need for power cuts.

Bihar : There were frequent cuts and load sheddings in Bhagalpur, Monghyr, Santhal Paraganas, Dhanbad, Hazaribagh and Singhbhum districts which depended on Damodar Valley Corporation Power. Power needs of Bihar are 630 Mw. while the State generates about 240–275 Mw.

Gujarat : Chronic power shortage resulting in a 25 to 50 per cent cut in industrial sector and 9 hours of load shedding in agricultural sector, had been imposed in Gujarat due to frequent trouble at Tarapur Atomic Power station and Dhuvaran Thermal station. Total demand for power in Gujarat was 936 megawatts against the supply of 725 megawatts.

It was feared that there would be production loss of Rs. 15 million per week in the industrial sector. About 30,000 workers were expected to be dismissed from their jobs.

Haryana: The supply was hit due to cut in supply from Bhakra Hydel Complex and a 60 per cent cut was imposed on all consumers.

Madhya Pradesh : Thus far it has a surplus of electric power but the Korba Aluminium Plan, when completed, is expected to consume 235 megawatts out of a total 757 megawatts installed capacity in the State. Three of the four power stations are thermal and, therefore, less dependent on water.

Maharashtra : A power cut varying from 2 to 25 per cent was imposed from December 1, 1972.

Production of power was expected to fall by 1,000 million units from Hydro-electric sources and 750 million units from the Tarapur Atomic Power Station.

The highest cut of 25 per cent had been imposed on domestic and commercial consumers. On industrial consumers it was 16 per cent ; on defence, and export oriented industries 8 per cent ; on processing units 4 per cent and on essential industries 2 to 5 per cent. Authorities estimated the loss in production in the Poona-Bombay complex alone to be Rs. 13 million per day out of a daily production of Rs. 80 million.

Mysore : A 25 per cent power cut had been imposed from October 1972, due to scanty rainfall in the Sheravathi Hydel Scheme. Industrial production loss was expected to be about Rs. 270 million till the next monsoon starts. Pumpsets, however, had been exempted from the power cut.

Punjab : The failure of the monsoons had resulted in reducing storage of the Gobind Sagar Lake at Bhakra by 50 per cent. The total availability of power was 8 million units of which 6 million units were supplied by the Bhakra Management Board. This supply was reduced to 3·7 million units in August, 1972, and to 2·7 million units in January, 1972. The government had, therefore, imposed a cut of 60 per cent on industries. Agriculture had also been badly hit and kharif crop of 1972 produced only 750,000 tonnes of rice against an expected 1·2 million tonnes (see Chapters on Agriculture and Food). The State Electricity Board had commissioned diesel sets with a total production capacity of 200,000 units of power per day to irrigate the Rabi crops. The board also drew power from Madhya Pradesh to tide over some of the shortage which is about 6 million units daily. The daily needs in the State are about 10—15 million units.

Rajasthan : No cuts were imposed despite a shortage of 800,000 to 1,000,000 units. This was overcome by disconnecting in rotation 5 or 6 distribution points which supplied power to rural areas for 2 to 5 hours each day.

Tamil Nadu : The power cut was stepped up from 40 per cent to 75 per cent on 15th February, 1973. A 25 per cent cut was imposed on October 1, 1972 and increased to 40 per cent on February 1, 1973. The crisis was brought about by the tensions in Andhra Pradesh consequent disruption of rail services and non-arrival of coal for the thermal plants.

The present requirement of the state is 1,325 Mw. Part of the deficiency is made up by borrowing almost 1,000 units from neighbouring States.

Uttar Pradesh : A 25 per cent cut was enforced in August 1972. This was increased further by another 15 per cent on January 7, 1973. The crisis was believed to be due to the incompetence of engineers of the State Electricity Board who utilised only about 35 per cent of the installed capacity of 1,572 megawatts from thermal and hydel stations. Thefts and transmission losses accounted for another 22 per cent. The total availability of power including supply from other States was 1,722 megawatts. The power cut had resulted in a loss of Rs. 454 million in the industrial sector till November 1972, and 30,000 workers had to be laid off. The agriculture sector had announced a loss of 600,000 tonnes of paddy.

West Bengal : A 15 per cent cut in power supply was enforced in early January, 1973. The deficiency was about 370 megawatts. A precise estimate of production losses was not available.

Per Capita Consumption : 500 kw. per capita is considered minimum or essential for a fair standard of living. On this basis 52 million kw. is needed by 1981.

The present demand of 11·7 m. kw. is expected to rise at least to 36·5 m. kw. by 1980-81. The country would therefore have to produce an additional 25 m. kw. by then.

Per Capita Power Consumption as Compared with some Advanced Countries for the year 1968

	In kwh
India	71
U.S.A.	6,550
U.S.S.R.	1,710
United Kingdom	3,481
West Germany	3,060
France	2,287
Sweden	6,434
Hungary	1,255

STATE-WISE LIST OF MAJOR IRRIGATION PROJECTS

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
ANDHRA PRADESH									
K. C. Canal and Sunkesula Anicut.	Improvements to Sunkesula Anicut across Tungabhadra River a tributary of river Krishna in Kurnool and Cuddapah districts.	2,148·17		307·4	122,219·4	76·8	1954–55	1962–63	The masonry anicut is 2,148·17 metres long.
Kadam.	Across Kadam river a tributary of the Godavari in Adilabad district.	2,102·00	40·6	77·00	34,400	83·9	1949	IVth Plan	The reservoir has a gross storage capacity of 215·24 M. cu. m.
Nagarjuna Sagar.	Across the Krishna River in Nalgonda district about 144 km. from Hyderabad.	1,450·00	124·7	202·78 (right bank) 178·63 (left bank)	830,000	1,649	1956	IVth Plan	Reservoir storage capacity: 11,558·7 M. cu. m.
Pochampad.	About 5 km. upstream of Soan bridge across the river Godavari in Nirmal taluk of Adilabad district.	12,588·24	42·24	112·63	230,679	401	1963–64	IVth Plan	Reservoir storage capacity : 3,765 M. cu. m.
Tungabhadra Low Level Canal.	Right flank of the Tungabhadra Dam, across the river Tungabhadra.			347	60,247	134·5	1944–45	1956–57	Length in A.P. 196 km.
Tungabhadra High Level Canal.	The high level sluices on the right side of the Tungabhadra Dam.			196	103,822	302·6	1958 (Stage I) 1968 (Stage II)	1970–71 (Stage I) Vth Plan (Stage II)	Canal includes construction of Guntakal branch canal.
ASSAM									
Jamuna Irrigation Scheme.	A weir at Bokaliaghat across the river Jamuna near Diphu under United Mikir and N. C. Hills.	311·60	3·05	137·15	25,698	39·6	1964	IVth Plan	
BIHAR									
Badua.	A dam across the river Badua at Hanuman Pahar.	472·60	42·05	27·1	42,493·50	66·0	1958	1965–66	Reservoir : Gross storage : 128·3 M. cu. m.
Chandan.	A dam on the river Chandan near village Lakshmipur.	1,569·00	40·24		70,382	104·2	1961–62	IVth Plan	Reservoir : Gross storage : 156·65 M. cu. m.
Gandak.	A barrage across the river Gandak at Balmikinagar about 760 m. below Tribeni Canal.	747·37	9·81	527·76@	1,198,755†	1,081·8	1960	Vth Plan	Half the barrage length is in Nepal.

@ Includes Canals Saran 66 km ; Tirhur 256·68 km ; Don Branch 95 km; Nepal Eastern 80·47 km. and Nepal Western 29·61 km.

† Includes 47,755 hectares in Nepal.

STATE-WISE LIST OF MAJOR IRRIGATION PROJECTS—(*Contd.*)

Name	Location	Dam		Canal (Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
				BIHAR — *Contd.*					
Kosi.	A barrage across the river Kosi near Hanumannagar on Indo-Nepal border and flood embankments along the bank of Kosi river in Sahar and Darbhanga.	1,149		165·81	996,000	165·81	1957	IVth Plan	Work on Western Kosi Canal is yet to start.
Sone Barrage[1]	A barrage at Indrapuri 8 km. upstream of the anicut at Dehri-on-Sone in the district of Shahabad.	1,407·00	7·59	185·56	12,57,000	271·60	1961 1968–69	1966–67 (Stage I) IVth Plan (Stage II)	Length of the canal includes Western link 10·3 km.; Eastern link 10·46 km.; Western High Level 82·40 km. and Eastern High level 82·40 kms.
				GUJARAT					
Banas.	A dam across the river Banas near village Dantiwada in Banaskantha district.	4,815·00[2]	61·0	651·77	44,517	108·8	1958	1968–69	Reservoir: Gross storage: 464·4 M. cu. m.
Hathmati.	A dam across the river Hathmati near the village of Fatehpur in Bhiloda Taluka of Sabarkanta district.	1,411·3	23·5	191·2	37,604	54·46	1959	1968–69	Reservoir: Gross storage: 161·51 M. cu. m.
Kakrapar.	A pick-up weir across the river Tapi near Kakrapar about 80·87 km. upstream of Surat.	621·00	14·00	435·00	227,543	180·5	1949	IVth Plan	
Mahi Right Bank Canal (Stage I)	A pick-up weir across the river Mahi near Wanakbori village, Balasinor Taluka of Kaira district.	796·00	20·6	304·00	186,162	245·68	1948	IVth Plan	
Mahi Stage II (Kadana).	A dam across the river Mahi at Kadana about 70·8 km. upstream of the Wanakbori Weir in Santrampur Taluka of Panchmahals district.	2,225·00	58·2	106·00	286,554[3]	210·01	1956	IVth Plan	Reservoir: Gross storage: 1,700 M. cu. m.

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[1] Includes Sone High Level Canal. [2] Length includes 327 m. of masonry. [3] Direct irrigation facility is only 16,554 hactares on the left bank canal. Firming up and extension of 270,000 hectares irrigation facility under Mahi right bank canal is envisaged.

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
GUJARAT — *Contd.*									
Narmada.	A dam across river Narmada near Navagam village in Rajpipla Taluka of Broach district.	2,012·00	69·2	143·2	403,688	1,097·00	1959	Vth Plan	
Shetrunji.	A dam across the river Shetrunji 10·40 km. from Palitana town of Bhavnagar district.	3,126·00[4]	38·10	154·5	34,804	69·6	1955	1965	Reservoir: Gross storage: 350·3 M. cu. m.
Ukai.	A dam across the river Tapi near Ukai in Songadh Taluka of Surat district.	4,928·00	68·6	949	152,400[5]	1,044	1960	IVth Plan	Reservoir: Gross storage: 8,511 M. cu. m. It has 4 power units of 75,000 kw. each.
HARYANA									
Gurgaon Canal.	Comprises of a branch-canal taking off at 8 km. below off-take of Agra Canal from Okhla headworks near Delhi and serves Haryana and Rajasthan States.			469·31	173,580	118·6	1959–60	IVth Plan	Irrigation benefit to Haryana is 101,580 hectares. Rajasthan's share for the project is Rs. 83·6 million.
Western Jamuna Canal.	The canal takes off from Tajewala headworks and serves Haryana State.			629·03	264,887	95·0	1951–52	IVth Plan	The scheme envisages for remodelling of Western Jamuna canal and branches.
JAMMU & KASHMIR									
Tawi Lift Irrigation.	An intake structure on the left bank of river Tawi near Bahu fort about 56·3 km. from Jammu.			32·00	12,141	51·7	1969–70	IVth Plan	Type: R. C. C. Head regulator. Discharge: 8·49 cu. m./sec. (300 cusecs).
KERALA									
Kallada.	A dam across the river Kallada in Quilon Dist. about 72 km. from Trivandrum.	335·00	73·48	125·57[6]	105,222	144·91	1962	Vth Plan	Reservoir: Gross storage: 524 M. cu. m.
Kuttiyadi.	A dam across the river Kuttiyadi at Peruvannamushi in Kozhikode.	170·7	35·4	76·60	31,162	52·42	1962	IVth Plan	Rservoir: Gross storage: 120·5 M. cu. m.
Malampuzha.	A dam across the river Malampuzha at Kadukkamkunnam village of Palghat.	1,849·00	38·1	63·57	38,527	58·00	1949	1967	Gross storage of the reservoirs: 236·16 M. cu. m.

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[4] Includes 770 metre masonry. [5] Indirect irrigation facility of 227,430 hectares is envisaged under Kakrapar weir. [6] Includes left bank canal of 70 km. long.

STATE WISE LIST OF MAJOR IRRIGATION PROJECTS—(*Contd.*)

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
				KERALA — *Contd.*					
Pamba.	A barrage across the river Kakkad, a tributary of the river Pamba 152·44 m. upstream of Perinad rubber factory in Quilon.	79·3		197·2	33,995	92·05	1962	IVth Plan	
Periyar.	Across the river Periyar at Plancode near Alwaye in Ernakulam district.	210·9		29·00	40,996	64·94	1956	End of IVth Plan	
				MADHYA PRADESH					
Barna.	A dam across the river Barna 2·4 km. upstream of village Bari, Raisen district.	432·00	47·7	38·00	66,433	70·00	1960	End of IVth Plan	Storage capacity of the reservoir: 490·40 M. cu. m.
Chambal.	Mandsaur	—	—	—	283,280	485.325	1953	1970-71	
Gandhisagar Dam.	A dam across the river Chambal about 8 km. downstream of Chaurasigarh fort in Mandsaur district.	514·00	63·7	*	*	136·03	1954	1960	This is an inter-State project with Rajasthan. Gross storage capacity of the reservoir is 7,746 M. cu. m.
Hasdeo.	A barrage across the river Hasdeo, a tributary of Mahanadi at village Dari near Korba Thermal Power Station near Bilaspur district.	283·77		3·55	[7]	98·6	1961	1967	
Tawa.	A dam across the Tawa river, a tributary of the Narmada river, 822·96 m. downstream of Tawa and Denwa confluence in Hoshangabad district.	1,630·22[8]	57·95	196·85	303,514	401·5	1962	IVth Plan	The storage capacity of the reservoir is 2,297·99 M. cu. m.
				MAHARASHTRA					
Bagh.	Dam across Bagh river near Sirpur village, Gondia taluka, Bhandara district and a pick-up weir at village Pujantara.	2,836·00	28·5	64·00	33,671	58·4	1958	1972	The storage capacity of the reservoir is 203 M. cu. m.
Bhima.	Dam across the river Pawna, near village Phagna of Poona district and a dam across Bhima river near village Ujjaini in Sholapur district.	Pawna 1,702 Ujjaini 2,330	Pawna 43·00 Ujjaini 51·80	429·6	130,846	425·8	1964	Vth Plan	There is no canal connecting with Dam at Pawna. The gross storage capacity of the reservoir is 3,114 M. cu. m.

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[7] For supplying cooling water to Korba Thermal Power Station.

[8] It has two dykes of 183 m. length each.

* Particulars about the canal are given under Kotah Barrage (Rajasthan). An area of 222,586 hectares in the State will be irrigated through Kotah Barrage.

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
MAHARASHTRA — *Contd.*									
Ghod.	Dam across the river Ghod near village Chinchi, Sirur taluka, Poona district on one side and at village Vadgaon Madhe, Shrigonda Taluka in Ahmednagar district on the other side.	2,852	29·6	33·5 & 86·5	24,615	55·6	1954	1965–66	The length of the right bank and left bank canals are given separately. The gross storage capacity of the reservoir is 215·86 M. cu. m.
Girna.	A dam across the river Girna, near village Banzam in Nasik district.	963·16	55·00	144·00	57,208	127·5	1958	1967–68	The gross storage of the reservoir is 611·81 M. cu. m.
Itiadoh.	A dam across Garvi river, a tributary of Wainganga in the Godavari Basin, Bandara district.	527·00	28·00	80·00	46,136	69·2	1958	End of IVth Plan	The gross storage of the reservoir is 283 M. cu. m.
Jayakwadi.	A dam at Patan across the Godavari river.	10,000·00	36·6	183·00	141,645	384·6	1964	IVth Plan	The cost is likely to be revised to Rs. 587·81 million.
Khadakwasla.	A dam across the river Ambi at Panshet and strengthening of the existing dam at Khadakwasla across the river Mutha.	823·00	58·00	127·00	22,298	167·00	1957	End of IVth Plan	Capacity of the reservoir is 312 M. cu. m.
Krishna.	Dams across the Krishna river near Dhom and Borkhal villages and Venna river near Kanher in Satara district.	Dhom 2,302·68 Borkhal 3,341·83 Kanher 1,847·00	 50·00 35·06 47·56	367·4	1,06,290	276·57	1968–69	Vth Plan	The length of the canals separately are : Dhom 134·4, Borkhal 169·0 and Kanher 64 kms. The total gross storage of the reservoirs is 712·42 M. cu. m. respectively.
Kukadi.	Dam at Manikdoh on Kukadi river, a weir-cum-storage at Yedgaon on Kukadi river and a dam at Pimpalgaon in Poona district.	Manikdoh 1,763·00 Yedgaon 4,470 Pimpalgaon 925·00	 55·00 22·56 23·8	124	42,700	179·00	1969–70	Vth Plan	The gross storage capacity of the reservoirs is : 308·0 M. cu. m., 93·4 M. cu. m. and 107·5 M. cu. m.
Mula.	Dam across the river Mula at village Baregaon–Nandur in Ahmednagar district.	2,820	46·63	75·2	65,561	161·6	1959	1971–72	The length of the right bank canal is 57·6 km. The gross storage capacity of the reservoir is 736·3 M. cu. m.

STATE-WISE LIST OF MAJOR IRRIGATION PROJECTS—(*Contd.*)

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
		MAHARASHTRA — *Contd.*							
Purna.	Two dams on the river Purna, one at Yeldari and the other at Siddheshwar in Parbhani district.	Yeldari 2,921·81 Siddheshwar 4,658·27	 51·36 38·25	44·8	61,514	160·7	1957	1968	The cost of the three power units Rs. 26·7 million is not included. The total capacity of the units is 22,500 kw. The gross storage capacity of the reservoirs is 1,216 M. cu. m.
Upper Godavari.	Dams at Karanjavan, Waghad, Oxarkhed and Palkhed in Dindori taluka, Nasik district.	Karanjavan 2,470·00 Waghad 899·00 Oxarkhed 3,000·00 Palkhed 3,571·00	 64·79 72·91 67·23 39·00	114·00	41,682	142·9	1968	IVth Plan	The length of the two left bank canals of Oxarkhed and Palkhed Dams respectively are 12 km. and 102 km. The gross storage capacity of all the reservoirs together is 332·68 M. cu. m.
Vir.	Dam near Vir village, Poona district.	3,607·00	34·68	331·5[7]	26,710	54·1	1957	1965–66	The storage capacity of the reservoir is 328 M. cu. m.
Warna.	Dam across Warna river near Khujgaon about 26 km. east of Shirala town in Sangli district.	1,458·00	58·52	341·00	99,058	310·87	1964	Vth Plan	The length of the left bank canal is 148 kms.
		MYSORE							
Bhadra.	Dam across the river Bhadra near Lakkavali village.	440·5	71·6	176·62	99,015	350·0	1947	IVth Plan	Storage capacity of the reservoir is 2,023 M. cu. m.
Ghataprabha.	A weir across the river Ghataprabha near Dhupdal in Belgaum district and a dam near Hidkal village about 19 km. upstream of the Dhupdal weir.	Dhupdal 2,084·00 Hidkal 8,841·00	 8·95 50·00	114·25	11,700	554·75[8]	Stage I 1949—Completed Stage II 1956—Vth Plan		The length of the stage I canal is 70·8 km. The gross storage of the reservoir is 660 M. cu. m.
Hemavathy.	Mysore	—	—	—	40,700	350.00	1967		
Harangi.	Coorg	—	—	—	30,525	170.00	1967		
Kabini.	Dam across the Kabini river near village Bidarahalli in Heggadadevanakote talukas.	2,701·00	59·45	212·43	50,992	248·00	1959	Vth Plan	The storage capacity of the reservoir is 543·80 M. cu. m.
Karanja	Bidar	—	—	—	27,269	90.00	1969		

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[7] The canal feeds the existing Nira right 169 km. and Nira left 162·5 km. main canals. [8] The expenditure on Stage II is Rs. 486·30 million.

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
Malaprabha.	Dam on the river Malaprabha at Peacock Gorge near Manoli village.	154·6	43·3	193·12	121,410	676·50	1965	Vth Plan	The capacity of the reservoir is 880·0 M. cu. m.
Tungabhadra.	A dam across the river Tungabhadra at Mallapur village in Bellary district about 4·8 km. from Hospet.	2,441·00	49·39	576·13[9]	272,100	1,018·57[10]	1945	1966	It is an inter-state project with Andhra Pradesh. There are 14 power units of 9,000 kw. each, 8 being on the right bank.
Upper Krishna.	The dams across the Krishna river one at Almatti in Bagewadi taluka and the other at Siddapur in Muddebehal taluka in Bijapur district.	Almatti 1,631·00 Siddapur 6,951	 34·76 23·63	Almatti 170·58 Siddapur 222·00	242,820	750·00	1964	Vth Plan	The capacity of the reservoirs is 2,350 M. cu. m. and 791 M. cu. m. respectively.
				ORISSA					
Hirakud.	Dam across the river Mahanadi 9·7 km. from Sambalpur Railway Station.	4,801·2 & 20,661 metres dykes	61·00	147·00	496,567	827·6	1948	IVth Plan	Dam completed in 1957. There are 9 power units, 5 of them having 24,000 kw. each and four 37,500 kw. each.
Mahanadi Delta.	A weir across the river Mahanadi at Mundali 4·8 km. upstream of Naraj in Cuttack district.	1,353		386·24	68,071	683·81	1955–56	IVth Plan	
Salandi.	A dam at Hadgarh and a barrage at Bidyadharpur across the river Salandi.	1,022·3	51·8	80·45	61,903·8	130·76	1961	IVth Plan	The length of the barrage 204·3 metres included in the length of the Dam. Reservoir capacity: 565·8 M. cu. m.
				PUNJAB					
Bhakra Nangal*.	(1) Bhakra dam across the river Sutlej at the foot of Shivalik Hills in Himachal Pradesh, (2) Nangal barrage across the river Sutlej about 13 km. downstream of Bhakra Dam.	823[11]	226·00	238·00[12]	1,460,000	2,415·10[13]	1948	1968	Irrigational benefit is being shared by Haryana 0·68 M. ha., Punjab 0·58 M. ha., and Rajasthan 0·23 M. ha.

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[9] Includes the left side canal 226·9 km. long. [10] Includes cost on headworks Rs. 175·1 mill., left side canal Rs. 481·11 mill., right side canal Rs. 24·00 mill., H.L.C. stage I & II Rs. 99·16 mill. and Power Rs. 239·2 mill. [11] Length of the Nangal barrage 305 metres is included. [12] Includes 64 km. Nangal Hydel channel. [13] Includes Rs. 724·23 million on power and Rs. 659·10 million on right bank power house. * Power projects : Left bank — 5 units of 90 MW each in Bhakra, two units of 24 MW each and one unit of 29 MW at Gengwal ; two units of 24 MW each and one unit of 29 MW at Kotla ; Right bank : Five units of 120 MW each in Bhakra.

STATE-WISE LIST OF MAJOR IRRIGATION PROJECTS—(*Contd.*)

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
				PUNJAB — *Contd.*					
Beas (Unit I)†. **Beas** Sutlej Link.	A dam across the river Beas at Pandoh at a distance of 76·8 km. from Jogindernagar and 26·8 km. upstream of Mandi Town in H.P.	254·6	60·98	38·15	530,000	1,796·3	1961–62	Vth Plan	The length of the four tunnels respectively are: Surendranagar Hydel 11·58 km., Sutlej 13·68 km., Pandoh Baggi 12·87 km. and by-pass tunnel 0·2 km.
Beas (Unit II) Pong dam.	A dam across the river Beas at Pong 36·62 km. from Mukerian Station.	1,950	115·8	4·74	650,000	1,676·7	1961–62	Vth Plan	The gross storage capacity of the reservoir is 8,140·94 M. cu. m.
Harike.	A barrage at Harike across river Sutlej about 3·25 km. below the confluence of Sutlej and Beas rivers.	636·12		78·3	13,800	91·29	1950	1958	Length of the canal includes Makhu canal 24 kms.
Sirhind Feeder.	Takes off from Ferozepur Feeder at about 17·7 km. downstream of Harike Barrage.			142·00	No direct benefits	67·00	1953–54	1960	
				RAJASTHAN					
Kotah Barrage.	A barrage across the river Chambal 0·8 km. upstream of Kotah city.	551·83	39·02	379·8	222,000	217·5	1953	IVth Plan	Inter-state project with M.P. The work on the barrage was completed in 1960.
Rajasthan Canal.	The canal takes off from Harike Barrage in Punjab across the river Sutlej.			489·55	1,163,000	1,960·00	1958	Vth Plan	Second Stage: Rajasthan main canal 273·9 km. was taken up. The cost at the second stage is Rs. 860 million.
Rana Pratap Sagar Dam.†	A dam across the river Chambal 51·5 km. upstream of Kotah barrage and 56·33 km. downstream of Gandhi Sagar.	1,143·29	53·96		121,400	278·4	1961	IVth Plan	The project has four power units of 43,000 kw. each.

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† It is an inter-State project with Madhya Pradesh.

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
				TAMIL NADU					
Chittar Pattnamkal.	Dams on Chittar river inside the Ambadi Estate and another below Sivalikam factory.	1,838·00	47·00†	72·8‡	19,021	73·3	1963	End of IVth Plan	The dam at Ambadi estate is 762 m. long and at Sivalikam 1,076 m.
Lower Bhavani.	A dam across the river Bhavani just below its confluence with the Moyar in Gobichettipalayam Taluk in Coimbatore district.	8,799·00	62·00	199·5	78,917	103·40	1949	1956	The gross storage capacity of the reservoir is 925 M. cu. m.
Manimuthar.	A dam across the river Manimuthar in Tirunelveli district.	3,397·87	45·7	45·1	41,694	50·5	1950	1958	The gross storage of the reservoir is 156·06 M. cu. m.
Parambikulam(b) Aliyar.	It has seven weirs — five on the Annamalai hills *viz.*, Nirar, Sholayar, Parambikulam Tunakadavu and Peruvaripallam and two on the plains, *viz.*, Aliyar and Palar.	7,666·00(c)		244·00(d)	97,128	675·3	1959	IVth Plan	The gross storage capacity of all the seven reservoirs together 857 M. cu. m.
				UTTAR PRADESH					
Matatila.	A dam across the river Betwa 56 km. south of Jhansi town.	6,378·00	36·60	111·00	165,757	124·60	1952	1966	Irrigation benefits includes 45,326 ha. in M.P. The power installed capacity is 30,000 kw.
Ramganga.	A dam across the river Ramganga 3·2 km. upstream near Kalagarh in Garhwal distict.	625·8	125·6	82·00(e)	659,000	96·86	1961	1973–74	The installed power capacity is 198,000 kw. The capacity of the reservoir is 2,196 M. cu. m.
Sardà Sagar.	A dam across the river Chuka, a tributary of the Ghagra river near Indo-Nepal border.	22·5	16·15	1,113·8	74,930	73·23	1957–58	1962	The gross storage capacity of the reservoir is 567 M. cu. m.
Sarda Canal (Lower).	A barrage across the river Ghagra at Katarnia Ghat 16 km. below the Indo-Nepal border in Bahraich district.	1,814·1		264·00	607,050	648·4	1968–69	Vth Plan	

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† Height of two dams together, one being 22 m. and the other 25 m. respectively.

‡ There are two canals; *viz.* Pattnamkal 44 km. and Radhapuram 28·8 km. (*b*) It is an inter-state project with Kerala State. (*c*) Length and height of different dams: Sholayar 1,184 m.; 105 m.; Parambikulam 318 m. and 73 m.; Tunakadavu 338 and 12; Puruvallipallam 945 m. and 28 m.; Aliyar 3,201 and 22 m.; and Palar 2,680 m. and 23 m. respectively. (*d*) Total length of all the canals together (Sethumadai 9; Aliyar Feeder 13; Pollachi 48; Vettaikarampudur 18; Udumelpet 30; Parambikulam Main 126). (*e*) This is only a feeder canal. The actual total length of the branches of the canals under construction and remodelling together is 7,268 km.

STATE-WISE LIST OF MAJOR IRRIGATION PROJECTS—(*Contd.*)

Name	Location	Dam		Canal Length (km.)	Benefit (Area in hectares)	Cost (Rs. mill.)	Date		Other details
		Length (metres)	Height (metres)				Start	Completion	
UTTAR PRADESH — *Contd.*									
Western Gandak.	A barrage across the river Gandak at Balmikinagar.	747·37	9·81	112·7	164,000	503·8(*f*)	1961	IVth Plan	This is an inter-state project with Bihar State.
WEST BENGAL									
Kangsabati.	A dam across the river Kangsabati and Kumari about 3·2 km. upstream of the confluence of the two rivers near Ambikanagar in Bankura district.	11,200	41·15	1,305	384,465	460	1956	End of IVth Plan	Kangsabati dam was completed in 1965 and Kumari dam is expected to be completed by 1973–74.
Mayurakshi.	A dam across Mor river at Massanjore, 40 km. north-west of Suri and a barrage at Tilpara across river Mayurakshi 3·2 km. from Suri.	Dam 640 Barrage 308·8	47·3	361	246,861	204·6	1946	1956	The installed capacity of the power station is 4 MW.

(*f*) The cost of the project is shared among U.P. Rs. 318 mill., Bihar 175·3 mill. and Nepal benefit works Rs. 10·5 mill. respectively.

MEDIUM IRRIGATION SCHEMES

THE following are the names of the projects, estimated cost (Rs. millions) and ultimate benefits (in thousand hectares) respectively :

Andhra Pradesh : Bahuda Reservoir; 4·00; 1·17; Bandakattu Channel (Remodelling) 0·292; 1·46; Bharavanitippa Project 14·533; 6·86; Bheemanapalli 0·898; 0·77; Chennarajaswamigudi 3·255; 0·45; Gajuladinne Project 9·636; 5·06; Gambhiramgedda Reservoir 1·407; 0·24; Gandipalem Project 9·700; 4·05; Guntur Channel 17·00; 10·93; Jutpalli Project 2·376; 0·998; Kalangi Project; 3·515; 1·78; Kalyani Reservoir 7·00; 1·17 (now converted as water supply to Thirupathi town); Kanpur Canal 21·324; 6·89; Koilsagar Project 9·127; 5·87; Krishna Barrage 29·757; 42·844; Lakhnapur Project 4·184; 1·46; Lankasagar 7·655; 2·06; Lower Sagileru Project 5·726; 3·24; Mallimadugu 3·194; 1·62; Musi Project 40·90; 16·92; Nagavali Rightside Channel 2·686; 3·64; Nakkalagandi Project 0·729; 0·40; Nallavagu Project 7·621; 2·39; Narayanapuram Anicut 9·691; 14·91; Paidigam Project 2·413; 2·00; Paleru Reservoir 0·695; 0·61; Paleru Bitragunta Channel 2·616; 2·23; Pampa Reservoir 9·931; 5·26; Pincha Nadi Project 6·228; 1·58; Rajolibanda Project 38·300; 35·61; Rallapad Project (Stage II) 10·581; 4·45; Ramadugu Project 3·726; 2·02; Ramakrishnapuram Anicut 6·000; 2·71; Remperu Drainage 12·802; 4·17; Salivagu 4·057; 1·15; Sarlasagar Project 3·554; 1·70; Seethanagaram Anicut 1·28; 1·62; Siddalagandi 0·614; 0·16; Sirala 0·282; 0·85; Swarana Project 11·562; 2·83; Thandava Reservoir 37·007; 45·90; Torrigedda Pumping Scheme 6·579; 5·52; Upper Pennar Project 15·862; 3·93; Upputeru Lower Anicut 1·391; 0·77; Varaha Reservoir 11·570; 2·47; Vegavathi Anicut 2·332; 2·35; Vidyaranyaswamigudi Project 0·289; 0·08; Vottigedda Reservoir 14·250; 6·75; Zurreru Reservoir 3·033; 0·93.

Assam : Hargutti Scheme 4·278; 2·59; Longa Scheme 6·00; 4·78; Patradisa 3·362; 1·62; Sukla 29·80; 32·70.

Bihar : Adri 1·533; 4·25; Araj 4·119; 5·40; Banki Left Canal 7·800; 5·87; Baksha Dam 6·696; 3·04; Bijoy 3·232; 2·02; Botane 1·846; 6·68; Chacko 1·523; 2·33; Chandan (Phase I) 4·196; (*a*); Chaurs 8·356; 37·50; Dhawa 1·551; 4·25; Durgawati 2·794; 10·52; Emergent Lift Irrigation 3·00; 4·05; Jinjoi 1·482; 3·04; Kamla Canal 3·092; 15·38; Kamla Irrigation 14·80; 26·31; Kamla Weir 7·775; (No direct benefits); Kanchi 15·21; 18·21; Kaurihari 5·651; 11·66; Khania (Phase II) 2·214; 19·02; Kharagpur Lake 2·40; 4·86; Kohira 5·684; 10·32; Kokro 3·533; 3·84; Kudia 5·802; 4·73; Lilajan 6·499; 22·66; Lower Kiul Valley 8·156; 25·90; Mayurakshi L. B. Canal 8·11; 10·12; Morhar (Lower) 5·681; 19·97; Morhar (Upper) 5·613; 14·57; Morwe 12·612; 4·90; Musakhand Dam (Distribution) 17·929; 11·74; Nagi Reservoir 4·017; 3·04; Nakti Reservoir 7·085; 2·83; Paimar Barrage 8·95; 8·09; Panchne Irrigation Scheme (Phase II) 6·171; 12·40; Sakri Lower Valley 3·381; 20·24; Sakri (Phase II) 3·797; 5·06; Small dams in hilly districts 3·111; 15·01; Sone Weir 6·328; 6·52; Sunder Reservoir 19·206; 8·50; Torlow 1·399; 2·23; Tribeni Canal 14·267; 36·46; Udrasthan 13·50; 24·89.

Gujarat : Aji 6·875; 1·71; Bhimdad 2·262; 1·15; Bhogavo 6·808; 1·54; Brahmani 9·085; 3·85; Demi 5·30; 1·58; Dhatrawadi 10·40; 2·43; Doswada Tank 0·638; 0·92; Fulzar 4·453; 1·21; Gajansar 2·00; 1·62;

(*a*) Area benefited is included in Khania (Phase II) project.

Gajod 1·256; 1·15; Ghee 2·028; 0·83; Ghelo 4·424; 3·14; Goma 8·70; 2·19; Gondli 2·154; 0·93; Harnav 5·111; 2·67; Heran 1·809; 2·10; Hiran 8·992; 2·63; Kaila 2·692; 0·87; Kalindri 4·30; 0·91; Kankawati 1·723; 1·56; Karad 9·988; 4·53; Karol 1·211; 1·21; Limdi (Bhogavo) 5·814; 3·20; Machu I: 15·902; 6·76; Meshwa 31·433; 23·90; Moj 9·645; 4·81; Moti Fatewadi 7·227; 12·95; Munjisar 5·382; 1·34; Niruna 5·009; 5·67; Ozat 6·918; 2·39; Patadungri 7·724; 3·08; Puna 2·211; 1·01; Rangola 6·63; 3·50; Rawal 1·733; 0·45; Rojki 2·701; 1·54; Rudramata 10·60; 7·20; Sakroli 2·418; 1·22; Sanandro 1·163; 0·67; Sapada 1·909; 1·01; Saraswati 21·20; 8·74; Sasoi 7·699; 3·06; Shetrunji 16·315; 7·69; Surajwadi 3·425; 1·04; Suvi 2·958; 1·34; Vir Irrigation 0·904; 1·38; Wadhwan 6·674; 0·61; Wartu 4·981; 3·17.

Haryana : Dadri 7·672 (Benefits included under Western Jamuna Canal remodelling); Extension of lift irrigation under Western Jamuna Canal to Rewari and adjoining areas 13·00; 27·82; Irrigation Tubewells in Western Jamuna Canal Tract Stage I (128 numbers) 10·40; 10·15; Western Jamuna Canal feeder 33·975 (no direct benefits).

Jammu & Kashmir : Awantipur Canal 0·982; 1·95; Dudhar Canal 4·25; 2·83; Kathua Canal 7·594; 9·05; Kharbathang Canal 3·513; 0·81; Pratap Canal Remodelling 14·805; 8·09; Udhampur Canal 0·896; 0·40.

Kerala : Chalakudi (Stage I) 15·325; 22·99; Chalakudi (Stage II) 6·00; 16·39; Cheerakuzhi 9·076; 3·24; Chitturpuzha 10·926; 22·50; Gayatri (Meenakara) 22·00; 10·93; Kanhirapuzha 39·284; 19·43; Mangalam 10·60; 6·48; Neyyar (Stage I) 22·60; 15·38; Neyyar (Stage II) 17·00; 8·09; Pazhashi 47·65; 28·33; Peechi 23·500; 28·08; Pothundi 234·25; 8·90; Vazhani 10·557; 7·13; Walayar 13·462; 6·48.

Madhya Pradesh: Akhajhuri 4·512; 1·09; Ari Tank 3·00; 4·25; Bagh R.B.C. 34·84; 10·84; Bargoor 7·174; 2·44; Barodia 2·50; 0-91 Beniganj 6·423; 4·05; Bhainswar 5·45; 2·82; Bhehsakhedi 3·225; 1·39; Bhitrigarh 3·90; 1·18; Bhila Project 26·766; 12·95; Borad (Satak and Segwal) 11·352; 5·06; Chandrakeshwar 16·307; 4·86; Chappi 8·927; 2·71; Chillar 14·184; 5·26; Devendranagar 5·689; 2·43; Daroli 3·108; 2·27; Dhuandhar 4·208; 1·38; Dudhwa 33·364; (*b*); Dukrikheda 3·909; 2·67; Gangulpara 5·425; 3·45; Gondli 6·995; 3·08; Gopalpura 2·30; 0·81; Harsi System (Removal of shortage) 45·244; 23·88; Hasdeo R.B.C. 49·721; 47·46; Jassaiya (Koncha) 11·79; 5·00; Jhirigiri 7·494; 1·94; Kedar Nala 8·472; 4·65; Keshva Nala Tank 5·992; 3·84; Kettan 5·82; 3·10; Kharadi 3·004; 3·84; Kulgarhi 6·746; 2·10; Kunda Nala 2·971; 1·65; Kunwarpur 9·883; 2·15; Mahanadi Canals (Remodelling) 28·269; 56·66; Maniyari (Development) 3·705; 9·71; Mola 3·418; 2·02; Morwan 5·562; 2·67; Nagda Nala 5·939; 3·04; Nahleshara 21·42; 4·51; Nandanwara 1·826; 1·82; Pampavati 3·243; 1·09; Pareri 3·073; 1·94; Raigawan 6·34; 3·40; Sagarnadi 4·587; 1·59; Sampna 7·093; 2·20; Saroda 16·673; 7·35; Shivgarbhedli 1·827; 0·87.

Maharashtra : Adula 19·722; 5·75; Bandhara at Pushpavati 1·595; 1·63; Bandhara on Tarali 17·48; 2·20; Bandhara at Urmodi 1·767; 1·42; Bendsura Project 5·881; 3·37; Bhageda 4·67; 2·05; Bor (Phase I) 35·80; 13·356; Budhial Tank 9·05; 4·25; Chandni 7·160; 2·02; Chankapur Dam 2·20; 12·04; Dheku 3·993; 2·71; Dinanadi 34·827; 1·654; Ekburji 4·249; 2·43; Harni 5·646; 1·66; Gadadgad 4·733; 1·18; Galhati 8·224; 4·65; Gangapur (Stage I) 39·60; 16·79; Gangapur (Stage II) 13·36; 7·69; Ghirni 10·232; 2·83; Gyanganga 19·00; 4·37; Jivrakha 4·161; 1·06; Jui 3·605; 2·21; Kada 5·847; 1·21; Kadi 4·352; 1·10; Kal River Project 26·00; 1·434; Kamli 1·999; 0·97; Kanholi 14·565; 5·79; Karwand 17·40; 4·55; Katepura 41·273; 8·35; Khasapur 5·126; 3·56; Khelna 7·064; 2·47; Khuni (Saikheda) 17·80; 3·64; Kolhi 2·313; 0·47; Krishna Canal (Extension) 7·025; 8·29; Kudala 2·925; 0·57; Kundral 6·491; 1·72; Kurnoor 10·081; 3·61; Malangaon 7·42; 2·26; Malkhed 5·324; 1·78; Managarh Tank 4·667; 1·70; Manar (Phase I) 24·344; 10·12; Manar (Stage II) 29·30; 16·59; Manyad 17·50; 6·86; Mehkari 9·562; 4·05; Mohesangvi 3·845; 1·94; Morna River Project 17·30; 5·26; Mosam River Weir Scheme 3·609; 3·15; Nalganga 27·324; 8·74; Nirguna 18·978; 8·75; Padwal-karwadi 2·15; 0·83; Panzara 18·307; 7·77; Pindrabori Tank 4·246; 0·86; Purna Anicut 2·35; 0·10; Pus River 51·281; 11·72; Radhanagari H.E. Scheme 21·80; 9·31; Ranand 3·018; 1·09; Sangrampur 2·109; 0·97; Shivna Anicut 0·10; 0·28; Sindh Phana 5·84; 1·78; Sorna 3·705; 1·23; Sukhna 10·769; 2·51; Talwar 1·424; 0·67; Thirna 8·13; 2·43; Tulsi 22·00; 3·16; Umri 4·166; 1·57; Upper Dudhana 7·649; 3·40; Wan 16·449; 5·26; Wunna 9·90; 1·21.

Mysore : Ambigola 11·17; 2·95; Areshankar Tank 2·157; 1·24; Arkavathy 19·85; 2·83; Chickhole 8·875; 1·60; Dharma 13·294; 5·67; Hagaribommanahalli 26·70; 2·97; Harinalla 16·515; 4·35; Hathikoni 8·30; 2·14; Hebbahalla 5·80; 1·21; Jambadahall 12·00; 2·43; Kalaskop Tank 2·151; 1·14; Kanakanala 10·00; 2·06; Kolchi Weir 4·295; 1·27; Lakshmanathirtha 16·64; 2·83; Manchenbele 7·656; 2·83; Mangla 6·00; 0·93; Nagathana 1·776; 0·56; Nugu Reservoir 31·114; 8·09; Rajolibunda (Diversion) 25·10; 2·38; Ramanahalli Tank 4·77; 1·94; Tunga Anicut 30·22; 8·70.

Orissa : Baghua 6·80; 4·05; Bahuda (Stage I) 15·894; 9·10; Budhabudhiani 148·65; 3·72; Dahuka 5·605; 4·65; Darjang 37·235; 9·71; Dhanai 13·21; 5·26; Godahado 19·734; 6·47; Hiradarbhati 3·446; 5·31; Pithamahal 8·30; 4·86; Salia 29·40; 10·83; Salki 16·60; 21·89; Uttei 9·20; 11·83.

Punjab : Harike Headworks (Remodelling) 4·27; No direct benefit; Jandiala and Gurdaspur Dn. of Upper Bar Doab Canal (Extension of irrigation of arid areas) 1·334; 6·78; Kasur Branch (Extension of new distributory) 2·329; 27·48; Kiran Nallah 1·475; 7·04; Madhopur Beas Link 33·80; (No direct benefit); Raising and Strengthening of Banks 11·49; 7·28; Shah Nehar Canal (Remodelling) 3·844; 19·02; Spillover Schemes of Punjab 7·60; 34·38; Upper Bar Doab Canal (Extension of non-perennial irrigation) 27·278; 143·71.

Rajasthan : Angore 2·00; 1·21; Alnia 4·10; 3·64; Arwar 5·00; 4·86; Atwara 0·501; 0·32; Badgaon (Berach) 7·70; 2·55; Bagolia 1·314; 1·01; Bankli 0·98; 1·70; Bharatpur 1·70; 4·86; Bhimsagar 7·30; 5·06; Bharatpur feeder 17·0; 4·86; Bhula 0·423; 0·40; Bundika Gothra 2·30; 2·43; Deoria Tank 0·40; 0·16; Gadola 0·80; 0·53; Galwa 4·10; 5·26; Gambheri 6·90; 5·46; Girinanda 0·897; 0·40; Gudha 7·20; 8·09; Hemawas (Raising) 0·450; 0·73; Jaitpura 3·40; 2·02; Jakham 2·70; 1·62; Jakham (Part II) 23·30; 11·65; Jawai 24·90; 7·69; Juggar 1·50; 2·55; Kala Bhata 0·241; 0·12; Kalisil 2·70; 2·43; Kantri 0·136; 0·16; Khari 3·70; 2·19; Lasaria 2·00; 1·62; Lodisar ka Naka 1·90; 1·13; Mashi 4·10; 3·64; Meja 9·70; 9·71; Morel 5·20; 6·56; Namano Canal 5·70; 4·45; Narayan Sagar 4·80; 2·19; Nindar 0·485; 0·44; Ora 1·592; 2·27; Orai 5·50; 3·24; Paibalapura 1·00; 1·01; Parabati

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(*b*) Benefits included under Mahanadi.

13·50; 12·14; Parwan 2·30; 4·05; Sareri 3·90; 5·26; Sei Diversion 11·55; 9·02; Small works completed in 1st Plan 10·46; 7·28; Surwal 1·10; 1·46; Surwania 2·00; 1·21; Ummed Sagar (Raising) 0·167; 0·69; Vallabhnagar Berach 8·50; 3·24; West Banas 6·50; 4·05.

Tamil Nadu : Amravathy 33·414; 21·65; Araniar 10·589; 2·46; Gatana 17·38; 3·29; Gomukhinadi 12·106; 2·02; Kattali (New) 22·458; 8·34; Krishnagiri 20·243; 3·64; Manimuktanadi 10·00; 1·72; Mettur Canal 19·291; 18·21; Neyyar (Stage II) 9·03; 3·69; Palar Anicut (Improvement) 6·30; 1·33; Pullambadi Canal 20·588; 8·95; Ramanadi 9·57; 1·41; Sathanur Project 25·80; 8·50; Sathanur (Stage II) 6·00; 2·02; Therupprappar Weir and Kodaiyar Extension 4·37; 47·53; Vaigai Project 33·00; 9·24; Vaigai Channels (Remodelling) 39·40; 44·42; Vidur 8·894; 1·30.

Uttar Pradesh : Agra Canal (Remodelling) 8·13; 8·26; Ahraura Dam 6·707; 8·88; Arjun Dam 11·701; 10·77; Afzalgarh Canal 17·47; 4·05; Arjun Dam (Extn.) 16·30; *; Balmiki (Ohen) Sarovar 9·407; 6·27; Banganga Canal 4·514; 8·90; Barwa Dam 6·80; 5·46; Baur Reservoir 34·00; 18·90; Belan Canal (Extn. 93 miles) 1·475; *; Belan and Tons Canal 27·924; 41·08; Bhimgoda Head (Remodelling) 8·494; *; Bhopauli Pumped Canal 10·60; 24·29; Chandraprabha Dam 8·771; 14·16; Chandrawal Dam 10·00; 4·31; Dalmau Pumped Canal (Stage I) 16·40; 61·60; Dhanapur Distributory (Construction of 40 miles Channels) 0·627; 5·70; Dohrighat Pumped Canal 192·95; 48·08; East Baigul Reservoir 10·659; 7·24; Eastern Yamuna Canal (Remodelling) 6·944; 8·90; Gularia Dam 2·816; 1·28; Haripura Reservoir 26·829; 19·99; Jahangirganj Dist. 3·364; 13·81; Jamni Dam 37·20; 12·48; Jani Escape (Remodelling) 16·23; *; Jirgo Reservoir 12·522; *. Kabrai Distributary System (Extn. of Channels) 0·136; *; Kabrai Lake 2·031; 1·94; Kan Canal 1·027; 4·28; Keolari Tank 1·984; 1·47; Kosi Irrigation 28·80; 19·13; Kuwano Pumped Canal 3·745; 8·59; Lalitpur Canal 1·057; *; Lalitpur Dam 4·320; 7·58; Meja Reservoir 35·47; 21·20; Musakhand Dam 31·50; 22·29; Nagwa Dam 8·337; 27·24; Naraini Gandak Pokhra Canal 9·570; 23·87; Narainpur Pumped Canal 10·00; 24·30; Narora Weir (Remodelling) 39·627; *; Navgarh Dam 13·625; 34·80; Ohen Canal (Five mile Channel) 0·86; 0·34; Partapgarh Branch 6·994; 19·19; Pili Reservoir 24·00; 11·49; Rangawan Dam 12·64; 37·64; Saprar Dam 9·55; 17·00; Saprar Dam (Extn.) 0·21; *; Sarda Canal 47·256; 67·75; Sarda Canal (Extn.) 11·383; *; Sarda Sagar (Stage I) 47·256; 67·75; Shahganj Distributary 2·294; 8·07; Tanda Pumped Canal 8·517; 27·48; Tons Pumped Canal 17·50; 52·00; Transkalyani Scheme 5·719; 19·06; Tumaria Reservoir 21·63; 16·19; Tumaria (Extn.) 27·00; 18·20; Upper Ganga Canal 1·605; 36·02; Upper Khajuri Reservoir 8·266; 7·28; Zamania Pumped Canal 11·80; 24·29.

West Bengal : Bandhu 4·233; 2·02; Berai Canal 2·178; 2·02; Hinglow 9·794; 12·44; Karatowa Tamla 4·638; 8·80; Shahrajore 5·561; 4·85; Suvankar Danra 1·717; 2·43.

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* No direct benefits.

STATE-WISE LIST OF MAJOR POWER PROJECTS

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date	
					Commencement	Completed
			ANDHRA PRADESH			
Kothegudam. (Thermal.)	Situated in the Singaneri coal field area in Telengana region.	Stage I & II: 4 units of 60,000 kW. each. Stage III: 2 units of 110,000 kW. each.	Whole of Andhra Pradesh, as power is fed into the State grid.	863·0	1962	Stage I 1966–67 Stage II 1968–69 Stage III 1972–73
Machkund. (1) (Hydro.)	A dam at Jalaput 193 km. north-west of Visakhapatnam and a diversion dam 22·53 km. below Jalaput across the Machkund river.	Stage I: 3 units of 17 MW. each. Stage II: 3 units of 21·25 MW. each.		182·79	1946	Stage I 1955–56 Stage II 1958–59
Nagarjunasagar Pumped Storage. (Hydro.)	This project envisages a power house at the toe of the Nagarjunasagar Dam.	2 units of 50 MW. each.		467·59	1970	Vth Plan

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[1] Joint venture of the States of Andhra Pradesh & Orissa, the share capital and benefits being shared in the ratio of 70 : 30 respectively.

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date	
					Commencement	Completed
ANDHRA PRADESH — *Contd.*						
Nellore. (Thermal.)	At Padugapadu village 1·6 km. north of Nellore town.	One generating unit of 30,000 kW.	Anantpur, Kurnool, Nellore and Cuddapah districts.	65·42	1961	1965
Ramagundam. (Thermal.)	Situated near Ramagundam Station in Telangana region.	Three units of 12,500 kW. each and one unit of 62,500 kW.	Warangal, Adilabad and Hyderabad.	122·6	1961	1970–71
Srisailam. (Hydro.)	A dam across the river Krishna near Srisailam, Kurnool district.	Stage I : 4 units of 110 MW. each. Stage II : 3 units of 110 MW. each.	Whole State as the power generated from the station will be fed into the State grid.	Stage I Rs.747·00	1963	Vth Plan
Sileru Hydro-Electric (Lower). (Hydro).	The project is located on the down stream of the Upper Sileru project with a main dam at Donkarayi and a power house is located near Polloor about 24 km. from the Donkarayi dam.	4 units of 100 MW. each under Stage I and 2 units of 100 MW. under State II.	Whole State as the power generated from the station will be fed into the State grid.	Stage I 540·00	1964	1973–74
Tungabhadra (H.E.)	Nellore.	30 MW.				1965
Upper Sileru Hydro Power. (Hydro.)	The power house is at Upper Sileru 64 km. from Chintapally and a diversion weir at Guntawada across the river Sileru in Chintapally taluk of Vishakapatnam district.	Two units of 60 MW. each.	Srikakulam, Vishakapatnam, Godavari (East & West), Krishna, Guntur and Nellore districts.	185·00	1958	1967–68
ASSAM						
Gauhati Thermal Station.	At Gauhati, on the southern side of river Brahmaputra near Narangi and Chandrapura.	One unit of 12,500 kW.—gas turbine set at Narangi and another unit of 30,000 kW. steam turbine set at Chandrapura.	Gauhati and neighbouring areas.	86·00	1963	1971–72

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date	
					Commencement	Completed
ASSAM – *Contd.*						
Namrup. (Thermal.)	At Namrup in the Lakhimpur district about 20 km. west of Naharkatiya Oil fields.	Stage I: 3 units of 23,000 kW. each gas turbine sets. Stage II: one unit of 30,000 kW. steam turbine set and an extention of one unit of 30,000 kW.	Dibrugarh, Tinsukiya, Nazira, Jorhat, Doomdooma, Golaghat and Nagaland.	236·24([2])	1961	Stage I: 1965 Stage II: 1972-73 Extn.: Vth Plan.
Umium. (Hydro.)	Stage I: A dam across Umium river about 14·4 km. from Shillong. Stage II: A weir across Umsumer stream, down stream of Umium power station.	Stage I: four units of 9,000 kW. each. Stage II: two units of 9,000 kW. each. Stage III: two units of 30,000 kW. each.	Kamrup, Khasi and Jantia Hills, Cachar Darrang and Goalpara.	Stage I: 141·3 Stage II: 44·40 Stage III: 88·3	Stage I 1959 Stage II 1962 Stage III 1970-71	1965 1969-70 Vth Plan
BIHAR						
Barauni. (Thermal.)	On the northern bank of the river Ganga in Monghyr district.	Stage I: Three units of 15 MW. each, Stage II: two units of 50 MW. each and Stage III: one unit of 120 MW.	Whole of north Bihar and part of south Bihar.	387·40	1960	Vth Plan([3])
Patratu. (Thermal.)	Located in Hazaribagh district about 6 km. from Patratu Railway Station.	Stage I: Four units of 50 MW. each and two units of 100 MW. each, Stage II: two units of 110 MW. each.	South of Bihar & Chota Nagpur.	Stage I: 896·90 Stage II: 896·90	1963	Vth Plan([4])
Subarnarekha. (Hydro.)	A dam across the river Subarnarekha at Getalsud, 30 km. from Ranchi.	Two units of 65 MW. each.	Ranchi and adjoining areas.	129·00	1965-66	Vth Plan
GUJARAT						
Dhuvaran. (Thermal.)	At Dhuvaran 9·6 km. from Cambay in Kaira.	Stage I: four units of 63·5 MW. each and Stage II: two units of 140 MW. each.	Saurashtra, North and South Gujarat, Bhavnagar, Shahpur, Porbandar and Kutch.	Stage I: 307·8 Stage II: 430·0	1960	Stage I: 1969 Stage II: 1971-72
Gas Turbines Schemes.	Ankleshwar and Cambay.	Two units of 27 MW. each.	Gujarat State.	40·6	1968	1969-70

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[2] Cost seperately for Stage I: Rs. 135·94 mill., Stage II: Rs. 55 mill.; and Stage II Extn.: Rs. 45·3 mill.

[3] Two units of 15 MW in 1963, third unit of 15 MW in 1966, one unit of 50 MW in 1969-70 and another unit of 50 MW were commissioned in 1970-71.

[4] Out of four, three units of 50 MW were commissioned by 1968 and the fourth is expected to be completed by 1972-73.

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date	
					Commencement	Completed
			GUJARAT — *Contd.*			
Ukai. (Thermal.)	On the down stream of Tapi Reservoir about 12 km. from Fort Songad Railway Station.	Four units of 120 MW. each.	Industrial regions of Gujarat.	680·0	1969	Vth Plan
			HARYANA			
Delhi Thermal Station	Delhi.	Three units of 62·5 MW. each.	Delhi and Haryana.	256·00	1965	1968
Faridabad Thermal Station.	Faridabad about 29·0 kms. from Delhi.	Stage I: One unit of 15 MW. and Stage II: one unit of 55 MW.	In and around Faridabad in Haryana State.	Stage I: 24·85 Stage II: 100·00	Stage I 1964 Stage II 1966	 1966 IVth Plan
			JAMMU & KASHMIR			
Chenani. (Hydro.)	Across the river Tawi 6·44 km. upstream of Chenani village in Jammu district.	5 units of 4·66 MW. each.	Jammu District	95·00	1960	1971
Kalakot. (Thermal.)	At Kalakot about 20 km. from Jammu.	Three units of 7,500 kW. each.	Jammu district.	50·00	1961	1970–71
Lower Jhelum. (Hydro.)	A weir across the river Jhelum at Jainpur village in Baramulla district and a power house at about 72·5 km. west of Srinagar.	Seven units of 16 MW. each.	Kashmir valley.	350·00	Under investigation.	Vth Plan
Salal H. E. Scheme.	The high dam (113 m. high) across the river Chenab near Madhopur.	Stage I: Three units of 90 MW. each. Stage II: Three units of 90 MW. each.	Kashmir valley.	551·5	1969	1975–76
Sindh H. E. Project.	A weir across the river Sindh about 28 km. upstream of the existing Ganderbal Hydro Power Station and a power house at Sumbal about 48 km. north-east of Srinagar.	Two units of 11 MW. each.	Kashmir valley.	80·5	1965–66	1972–73

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date	
					Commencement	Completed
			KERALA			
Edamalayar H. E. Scheme	A dam across Edamalayar, a tributary of Periyar.	Three units of 30 MW. each.		125·00	1969	Vth Plan
Iddiki. (Hydro.)	Dam across the rivers periyar and Cheru-theni in Kottayam district and the power house in Moolamattam in Ernakulam district.	Three units of 130 MW. each.	Whole State as power will be fed into the State grid.	682·10	1963	1972–73
Kuttiyadi. (Hydro.)	A dam across river Kuttiyadi near Oorakuzhi falls about 64 km. from Kozhikode & a power house on the bank of Kakkayam, a tributary of Kuttiyadi.	Three units of 25,000 kW. each.	Whole State as power will be fed into the State grid.	83·5	1962	1970–71
Sabarigiri (Pambakakki) H. E. Project.	129 km. south-east of Kottayam across the Pamba & Kakki river in Quilon district.	Six units of 50,000 kW. each.		430·00	1961	1967–68
Sholayar H. E.	A dam across the river Chalakudi 67·6 km. north-east of Chalakudi in Trichur district.	Three units of 18,000 kW. each.	Whole state as power will be fed in the state grid.	77·4	1960	1968
			MADHYA PRADESH			
Amarkantak (Thermal).	At Amarkantak in Shahdol district.	Two units of 30 MW. each in Stage I and one unit of 55 MW. in Stage II.	Jabalpur and Rewa divisions.	Stage I 106·26 Stage II 70·00	Stage I 1961 Stage II Not yet started.	 1965
Chambal H.E.	Chambal.	386 MW.	Mandsaur		March 1970	
Gandhi Sagar	Kotah.	115 MW.			March 1970	
Korba (Thermal).	In the coal fields of Korba in Bilaspur district.	Stage I : Three units of 30 MW. each and one unit of 10 MW. Stage II : Four units of 50 MW. each.	Bilaspur & Raipur divisions.	Stage I 120·3 Stage II 302·8	1956	1969

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date	
					Commencement	Completed
		MADHYA PRADESH — *Contd.*				
Ranapratap Sagar	Chambal.	172 MW			March 1970	
Satpura (Thermal).	At Sarni in Patharkhada coal fields in Betul district.	Five units of 62·5 MW. each.	Western Madhya Pradesh.	392·5	1963	1969–70
		MAHARASHTRA				
Bhusawal (Thermal).	At Bhusawal, Jalgaon district.	One unit of 62,500 kW.	Khandesh area.	86·00	1961–62	1968
Khaperkheda (Thermal).	At Khaperkheda about 32 km. from Nagpur.	Three units of 10 MW. each, one unit of 30 MW. on first extension and two units of 30 MW. each on second extension.	Vidarbha region.	138·5	1960–61	1964
Koyna H. E.	Dam across the river Koyna at Deshmukhwadi near Helwak in Satara. Underground power station is located at Pophali below ghats.	Stage I: Four units of 60 MW. each. Stage II: Four units of 75 MW. each & Stage III: Four units of 80 MW. each.	Bombay, Poona, Satara, Sangli & Kolhapur districts.	Stage I 382·79 Stage II 181·60 Stage III 380·00	1954	Stage I 1963 Stage II 1967–68 Stage III Vth Plan
Nagpur (Thermal).	At Koradi village about 8 km. north of Nagpur.	Stage I: Two units of 120 MW. each. Stage II: Two units of 120 MW. each.	Vidarbha and Marathwada regions.	Stage I 478·8 Stage II 387·2	1967	Stage I IVth Plan Stage II Vth Plan
Nasik (Thermal).	At Eklahare village about 5 km. from the Nasik Rd. Rly. Stn.	Two units of 140 MW. each and one unit of 110 MW. on extension.	Western Maharashtra over Koyna-Tata-Nasik interconnected grid.	478·5 190·00 (Extension)	1966	1970 and Extn. during Vth Plan
Paras (Thermal).	At Paras about 19·2 km. from Akola.	One unit of 30 MW. and one unit of 62·5 MW.	Marathwada region.	83·6	1962	1968
Parli (Thermal).	At Parli about 9 km. from Parli-Vaijanath Railway Station on river Godavari.	Two units of 30 MW. each.	Marathwada region.	178·0	1966	1973
Vaitarna (Hydro).	Two dams, one on Vaitarna river and the second dam on Alawand, a tributary of Vaitarna near Jawar in Nasik district.	One unit of 60 MW.	Whole State as the power generated will be fed into the Stage grid.	141·3	1963–64	End of IVth Plan

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date	
					Commencement	Completed
MYSORE						
Bhadra.	Shimogao	33,200 KW.	N.A.	N.A.	1956	1964
Jog.	Shimogao	120,000 KW.	N.A.	N.A.	1939	1952
Kalinadi (Hydro).	Construction of a pick-up dam across the river Kali at Bommanahalli and diversion of the waters of Kali to Nagjhari Power House.	Three units of 132 MW.	Mysore State.	452·5	1968	Vth Plan
Munirabad	Raichur.	27,000	N.A.	N.A.	1958	1964
Sharavathi (Hydro).	Main dam near Linganamakki village and a subsidiary dam at Talakalale near Jog falls in Shimoga District.	Stage I: 1,78,200 kW. Stage II: 5,34,600 kW. Stage III: 1,78,200 kW.		Stage I: 560·8 Stage II: 435·13 Stage III: 71·8	1956	Stage I: 1965 Stage II: 1970–71 Stage III: IVth Plan
Shimshapura.	Mandya.	17,200 KW.	N.A.	N.A.	1937	1940
Shivasamudram.	Mandya.	42,000 KW.	N.A.	N.A.	1900	1938
ORISSA						
Balimela (Hydro).	Storage dam near Balimela across the river Sileru, a tributary of Sabari river.	Stage I: Six units of 60 MW. each. Stage II: Two units of 60 MW. each.	Whole State, as the power generated will be fed into the State grid.	447·1	1962	Vth Plan
Machkund@ (HE.)						
Talcher (Thermal).	Situated 3·2 km. from Talcher Railway Station.	Four units of 62·5 MW. each.	Whole State as the power generated will be fed into the State grid.	348	1961	1969
PUNJAB						
Bhatinda (Thermal).	Bhatinda.	Two units of 110 MW. each.	Whole of Punjab.	57·55	1970–71	1974
Shanan (Hydro).	Joginder Nagar, H.P.	One unit of 100 MW.	Punjab and H.P.	112·10	1969–70	1973–74
Upper Bari Doab (Hydro).	On the channel, taking off from Upper Bar Doab Canal, at the site of the regulator of Salampur feeder.	Three units of 15 MW. each.	Whole State as power generated will be fed into the State grid.	159·40	1963	1971
RAJASTHAN						
Jawahar Sagar[1] Dam (Hydro).	A dam across the river Chambal 29 km. upstream of Kotah city in Bundi district.	Three units of 33,000 KW. each.	Kotah, Jaipur, Bundi, Ajmer, Nagore, Jhalawar, Sawai Madhopur Tonk, Bhilwara, Udaipur districts.	184·20	1962	1971–72

@ Particulars are given under Andhra Pradesh. The States of Andhra Pradesh and Orissa share the capital outlay and power benefits in the ratio of 70 : 30.

[1] Areas benefited includes Western districts of Madhya Pradesh.

TAMIL NADU

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date	
					Commencement	Completed
Ennore (Thermal).	Ennore, about 12·9 km. north of Madras city.	Stage I: Two units of 60 MW. each & Two units of 110 MW. each Stage II: One unit of 110 MW.	Madras. Chingleput & North Arcot districts.	Stage I 637·11 Stage II 168·50	1964	Stage I 1971 Stage II 1973–74
Kodayar (Hydro).	Across the Kodayar river in Kanyakumari district.	One unit of 60 MW. and another of 40 MW.	Southern part of the State.	188·35	1962–63	1970–71
Kundah H. E. (Hydro).	Dams at Upper Bhavani, Persons Valley, Porthimund, Avalanche Emerald, Kundah Palam, Pillur and Pegumbahalah.	Stages I & II: 145 MW; Stage III: 245 MW; Stage IV: 110 MW.	Whole State as the power generated will be fed into the State grid.	Stages I & II 354·40 Stage III 368·90 Stage IV 30·00	1956	Stages I & II 1961 Stage III 1965–66 & Stage IV during IVth Plan
Mettur Tunnel (Hydro).	Built across the river Cauvery, about 51·3 km. from Salem town.	Stage I: Two units of 50 MW. each. Stage II: Two units of 50 MW. each.	Whole State as the power generated will be fed into the State grid.	118·16	1960–61	1966
Neyveli (Thermal).	At Neyveli between Vridhachalam and Cuddalore in the South Arcot district about 225 km. from Madras city.	Stage I: Five units of 50 MW. each. Stage II: One unit of 50 MW. and one unit of 100 MW; Stage III: Two units of 100 MW. each.	Whole State as the power generated will be fed into the State grid.	Stage I 293·00 Stage II 183·00 Stage III 241·00	1956	1970
Pandiyar, Punnapuzha (Hydro).	In Nilgiris District. The dams are: Pandiyar, Punnapuzha, Yellanalai, Forebay.	Single power station of 100 MW. capacity.	Whole of the State as the power generated will be fed into the State grid.	182·3	1968–69	Vth Plan
Periyar (Hydro).	About 64 km. south-east of Madurai town.	Stage I: Three units of 35 MW. each and Stage II: One unit of 35 MW.	Whole State as the power generated will be fed into the State grid.	Stage I 104·8 Stage II 8·88	1955	1965

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date	
					Commencement	Completed

UTTAR PRADESH

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date: Commencement	Date: Completed
Harduaganj (Thermal).	At Harduaganj, near Aligarh.	Stage I: Two units of 30 MW. each; Stage II: One unit of 30 MW; Stage III: Two units of 50 MW. each; Stage IV: Two units of 55 MW. each & Stage V: One unit of 120 MW.	Whole State through inter-connected system.	Stage I 55·93 Stage II 44·00 Stage III 180·00 Stage IV 215·60 Stage V 197·50	Stage I 1962 Stage II 1964 Stage III 1965 Stage IV 1968 Stage V N.A.	1963 1965 1968 1971 1975
Kanpur (Thermal).	Kanpur.	Two units of 32 MW. each & Two units of 110 MW. each on Extension Stage.	Whole State through inter-connected system.	441·3	1965	Stage I 1968 Extn. Stage Vth Plan
Obra (Hydro).	Dam across the river Rihand 53·2 km. downstream of Rihand Dam.	Three units of 33 MW. each.	Whole State through inter-connected system.	242·4	1963	1971
Obra (Thermal).	At Obra in Mirzapur district.	Five units of 50 MW. each, Obra extn. State I : Three units of 100 MW. each & Stage II: Three units of 200 MW. each.	Whole State through inter-connected system.	1,835·70‡	Stage I 1963 Stage II 1970–71	1971 Vth Plan
Rihand (Hydro).	A dam across the river Rihand near Pipri village in Mirzapur District.	Six units of 50,000 kW.	Whole State through inter-connected system.	378·00	1952–53	1966
Yamuna (Hydro).	A barrage at Dhakpathar, 40 km. from Dehra Dun and a diversion dam at Ichari across the river Tons, 12·8 km. north-west of Kalsi in Dehra Dun district.	Stage I: Three units of 11·25 MW. each at Dhakrani; Three units of 17 MW. each at Dhalipur. Stage II: Four units of 60 MW. each at Chibro & four units of 30 MW. each at Khodri.	Whole State through inter-connected system.	Stage I 168·3 Stage II 702·00	1960	Stage I 1969–70 Stage II Vth Plan

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‡ Total cost includes Rs. 530·00 mill. for Stage I extn. and Rs. 900·00 mill. extn., under Stage II.

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date	
					Commencement	Completed
WEST BENGAL						
Bandel (Thermal).	Bandel, 64 km. north of Calcutta.	Four units of 82·5 MW. each.	Lower Bengal region.	322·7	1962	1966
Durgapur Coke Oven Station (Thermal).	Durgapur.	Stage I: Two units of 30,000 kW. each and extn. 75,000 kW. unit; Stage II: Two units of 75,000 kW. each and on extn. one unit of 150,000 kW.	Durgapur and lower Bengal area.	356·12†	1960	V Plan@
Jaldhaka (Hydro).	A barrage across the river Jaldhaka 244 m. below the confluence of Bindu Khola in Darjeeling district and a power house near Jhalong 22·4 from Chapramari on Assam Railway link.	Two units of 9,000 kW. each under Stage I and one unit of 9,000 kW. (Extn.).	Jalpaiguri & Cooch-Bihar.	107·5	1961	Stage I 1967 Extn. 1971
Santaldih (Thermal).	At Santaldih upstream of Panchet reservoir and on the bank of the river Damodar in Purulia district.	Four units of 120 MW. each.	Lower Bengal.	750·00	1966	V Plan
SCHEMES UNDER DVC						
Bokaro (Thermal).	In the district of Hazaribagh within 2 km. from Bokaro Railway Station.	Stage I: Three units of 50 MW. each. Stage II: One unit of 75 MW.	Damodar valley and adjoining areas in Bihar and West Bengal.	Stage I 156·6 Stage II 45·00	1950	1960
Chandrapura (Thermal).	In Hazaribagh district, about 2·4 km. from the Chandrapura Railway Station.	Stage I: Two units of 140 MW. each. Stage II: One unit of 140 MW. Stage III: Two units of 120 MW each.	Damodar valley and adjoining areas of West Bengal and Bihar.	Stage I 288·47 Stage II 134·6 Stage III 359·4	1960	IV Plan
Durgapur (Thermal).	In Burdwan district near Oyaria Rly. Station.	Stage I: Two units of 75 MW. each. Stage II: One unit of 140 MW.	Damodar valley and adjoining areas in Bihar and West Bengal.	Stage I 127·00 Stage II 136·9	1957	1966

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† Total cost includes Stage I extension Rs. 67·7 million, Stage II and extension Rs. 148·42 mill. and Rs. 140·0 respectively.

@ The work on Stage I & II, and extension under Stage I was completed by 1966.

Name	Location	Installed Capacity	Areas benefited	Total Cost in Rs. Mill.	Date	
					Commencement	Completed
SCHEMES UNDER DVC—*Contd.*						
Konar Dam.	Across the Konar river in Hazaribagh district in Bihar.			97·5	1950	1955
Maithon.	Dam across the river Barakar in Bihar.	Three units of 20,000 kW. each.			1951	1958
Panchet Hill Project.	Across the river Damodar in Dhanbad district of Bihar.	One unit of 40,000 kW.		191·4	1952	1959
Tilaiya.	Across the river Barakar about 19·3 km. from Kodarma Railway Station.	Two units of 2,000 kW. each with provision for a third unit.		37·1	1950	1953
CENTRAL PROJECTS						
Badarpur (Thermal).	Thermal Station at Badarpur village at 16 km. from Delhi.	Three units of 100 MW. each.	The whole of Delhi.	560·00	1968	IV Plan
Baira Suil (Hydro).	A rock-filled dam across the Baira stream in H.P.	Three units of 67 MW. each.	Himachal Pradesh and northern grid.	204·9	1969	V Plan
Loktak (Hydro).	Barrage across the river Manipur at Ithai in Manipur.	Stage I: Two units of 35 MW. each. Stage II: One unit of 35 MW.		102·5	1969	V Plan

NEW POWER PROJECTS

The following are the region-wise names of some of the major power projects in operation or under construction at the end of 1970-71, with names of beneficiary States in brackets and the capacity in MW respectively :

Northern Region : Beas-Sutlej Link Project (Punjab, Haryana & Rajasthan) 660; Bhakra Nangal Project (Punjab, Haryana & Rajasthan) 604; Bhakra Right Bank Power Station (Punjab, Haryana and Rajasthan) 600; Delhi Electric Supply Undertaking (Delhi) 112; Giri Hydro-Electric Project (Himachal Pradesh) 60; Guru Nanak Thermal Power Station (Punjab) 220; Hindustan Aluminium Corporation's Thermal Power Station (Uttar Pradesh) 125; Indraprastha Thermal Station (Delhi) 242·5; Maneri-Bhali Hydel Scheme Stage I (Uttar Pradesh) 105; Panki Thermal Station, near Kanpur (Uttar Pradesh) 174; Pong Dam Project (Punjab, Haryana and Rajasthan) 240; Ramganga Hydro-Electric Scheme (Uttar Pradesh) 180; Ranapratap Sagar Atomic Power Station (Rajasthan) 400; Ranapratap Sagar Hydro-Electric Scheme (Rajasthan-Madhya Pradesh) 172; Uhl Hydro-Electric Scheme — Stage I (Punjab) 48; Uhl Hydro-Electric Scheme — Stage II (Himachal Pradesh) 45.

Eastern Region : Bokaro Steel Plant (DVC) 122; Calcutta Electric Supply Corporation (West Bengal) 506·7; Hirakud Hydro-electric Project—Stage I (Orissa) 123; Hirakud Hydro-electric Project — Stage II (Orissa) 147; Rourkela Steel Plant (Orissa) 125; Sindri Thermal Station (Bihar) 80; Tata Iron and Steel Co. Ltd. (Bihar) 120.

Western Region : Ahmedabad Electric Supply Co. (Gujarat) 217·5; Bhira Hydro-electric Scheme (Maharashtra) 132; Bhira Tailrace H. E. Project (Maharashtra) 80; Bhivpuri H. E. Station (Maharashtra) 72; Chola Thermal Station (Maharashtra) 136; Dhuwaran Gas Turbine Project (Gujarat) 54; Gandhi Sagar Dam Power Station (Madhya Pradesh & Rajasthan) 115; Khopoli Hydro-electric Scheme (Maharashtra) 72; Koradi Thermal Station (Maharashtra) 480; Tarapur Atomic Power Station (Maharashtra/Gujarat) 400; Trombay Thermal Station (Maharashtra) 337·5; Utran Thermal Station (Gujarat) 67·5.

Southern Region : Kalpakkam Atomic Power Station (Tamil Nadu) 400; Mahatma Gandhi H. E. Scheme (Mysore) 120; Pandiyar Punnapuzha H. E. Scheme (Tamil Nadu) 100; Pykara H. E. Scheme (Tamil Nadu) 71.

North-Eastern Region : Naharkatiya Thermal Station (Assam) 111·5.

MEDIUM POWER PROJECTS

The following are the names of the projects, estimated cost in Rs. million, and installed capacity (MW) respectively:

Andhra Pradesh : Balimela Dam Project (Share of A. P.) 126·00; 360·00; Kinnersani Dam Project (for supplying water to Kothagudam Thermal Station) 44·047; —; Package gas turbine sets 16·50; 20·00; Tungabhadra H. E. (Stage I) 100·60; 45·00; Tungabhadra Hydro Thermal Schemes (Plans I & II) 262·755; 57·00.

Assam : Garo Hills (Tura) Thermal Stn. 23·00; 5·00; Installation of Diesel sets (Tejpur, Jorhat & Chauba) 9·20; 13·20[*]; Nagwalbibra Thermal Station 23·00; 5·00; Umtru H. E. (Stage I) 21·00; 8·4; Umtru H. E. Stage II) 6·10; 2·8.

Gujarat : Diesel sets, Misc. Schemes 3·20; 4·5; Kandla Thermal Power Station (Extn.) 19·00; 16·00; Shahpur Power Station (Extn.) 12·20; 16·00.

Kerala : Cochin Thermal Power Station 93·70; 55·00; Neriamangalam H. E. 38·50; 45·00; Pallivasal —; 37·50; Panniar H. E. 63·00; 30·00; Poringalkuthu L. B. (Stages I & II) 39·93; 32·00; Sengulam H. E. 36·473; 48·00.

Maharashtra : Bhatgarvir 37·80; 23·00.

Mysore : Linganamakki Dam 49·50; 60·00.

Rajasthan : Diesel Power Station 8·50; 10·00; Jodhpur Power Station (Extn.) 3·058; 3·00.

Tamil Nadu : Basin Bridge Thermal Power Station Extn. (Stage IV) 63·441; 30·00; Cholatiphuga H. E. Scheme 32·30; 60·00; Kadanpuri H. E. Scheme 61·80; 35·00; Naduvathan Diversion Scheme 7·20; 70·00.

Uttar Pradesh : Gaziabad Diesel Power Station 3·256; 4·48; Kanpur Thermal Power Station (Extn.) 17·00; 15·00; Muradnagar Gas Turbine 11·00; 12·50; Yamuna H. E. Scheme (Stage IV) 65·10; 30·00.

West Bengal : Little Ranjit Hydel Scheme 2·90; 2·60; Packet Plant at Dishergarh and Farakha 18·90; 9·00.[†]

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[*] Includes Tejpur 8·20 MW, Jorhat 3·00 MW, and Chauba 2·00 MW.

[†] Dishergarh being 6·00 MW and Farakha 3·00 MW.

FLOODS

BACKGROUND

Monsoon in India is erratic and its intensity variable. Hence all places cannot be protected against all floods at all times. However, more work has been done towards flood control since 1954, when the National Flood Control Policy came into being, than in the last few centuries.

Flood Regions : Ganga-Yamuna, Ghagra, Rapti, Gandak, Bagmati and Kosi—covers part of Punjab, U.P., Rajasthan, Bihar, West Bengal, Delhi and Himachal Pradesh.

Brahmaputra Basin : Brahmaputra, Barak, Teesta, Torsa and Raidak — covers Assam and West Bengal. Brahmaputra lies in the seismic zone and brings down sediment.

North Western River Basin : Jhelum, Chenab, Ravi, Beas, Sutlej — covers Jammu and Kashmir, part of Punjab and Himachal Pradesh.

Central India and Deccan : Mahanadi, Brahmini, Baitarni, Godavari, Krishna and Tapi — covers Orissa, A.P., M.P., Maharashtra, Gujarat, Mysore, Kerala and Tamil Nadu.

FLOOD-PRONE AREAS

States which have recurring floods—are Andhra Pradesh, Assam, Bihar, Jammu and Kashmir, Punjab, U.P. and West Bengal. Recently Gujarat, Rajasthan and Madhya Pradesh have also experienced floods. The flood-prone area in India is estimated to be 24·27 million hectares. Out of that, 6·07 to 12·14 million hectares are affected every year. Sixty per cent of flood damage is caused by Himalayan rivers (Ganga, Brahmaputra and their tributaries). Damage from cyclones and rain is about 40 per cent of the total. Heavy floods in peninsular rivers (Godavari, Krishna, Pennar and Cauvery) have been occurring only at long intervals and almost all the damage caused in this area is by cyclones and heavy rainfall. In Himalayan region two-third damage is caused by floods and one-third by the rains. In the central rivers (Tapti, Narmada and Chambal) damage is the least, mostly by the rains. About 25 per cent of the flood-prone area has been protected at a cost of about Rs. 2,250 million, against floods since the first comprehensive plan to tackle flood which took shape in 1954. Present plan is to cover an equal area by 1981. In another ten years another 25 per cent will be protected, but it is not possible to cover the entire flood-prone area at any time. It is neither economically justifiable nor technically viable. In fact some areas which were considered safe have now become prone to floods.

The flood menace has been tackled by the construction of embankments, diversion channels and storage reservoirs. These measures protect the area around, but increase the risk downstream. This is what had happened in Bihar in August/September, 1971. River Ganga was in spate because of the many protective flood control works on many of the tributaries. It is difficult to construct a dam on River Ganga because it would inundate a large area and the loss thus incurred would be far greater than the damage by floods in its basin. Large areas in Assam, Orissa, Bihar and West Bengal became flood-prone due to breaches in embankments or absence of embankments. Strengthening and raising of embankments and constant vigil when the swollen rivers reach danger level helps in averting floods. West Bengal is flood-prone because of drainage congestion and releases from Damodar Valley Dam, though Damodar Valley Dam was designed with 'flood control' as its main objective like the Hirakud dam. Experts feel that canalisation of Damodar, the plans for which have been finalised for implementation within 3-4 years, will help avert much damage.

Another factor which contributes towards making large areas flood-prone are the indiscriminate cutting of trees and unauthorised grazing that is allowed in the foothills. The Himalayan rivers have steep gradients and in the absence of forestation in the catchment areas, the rapid flow leads to silting erosion, meandering, and changing of river courses, resulting in much damage. The region traversed by the Himalayan rivers is also subject to earthquakes and landslides, which makes large areas flood-prone.

Growing frequency of flood in Andhra Pradesh, Maharashtra, Gujarat and Rajasthan can also be traced to deforestation.

FLOOD DAMAGE

Statistics from 1953 to 1970 reveal that the average annual damage caused by floods is Rs. 870 million. Including indirect losses, the annual average damage may amount to Rs. 1,000 million. The maximum damage in any year has been Rs. 3,333 million in 1969 — This includes Rs. 1,950 million damage due to Andhra Pradesh cyclone. In 1970 also the damage amounted to Rs. 2,868 million. In 1971 the loss by floods is expected to reach over Rs. 4,000 million.

Flood damages since 1953 in the country

Sr. No.	Year	Total area affected in million hectares	Population affected in million	Cropped area affected in million hectares	Value of crop damaged in Rs. million	No. of houses damaged	Value of houses damaged in Rs. million	Cattle lost Nos.	Human lives lost Nos.	Damage to public utilities in Rs. million	Total damage to crop, houses and public utilities in Rs. million (Col. 6+8 + 11)
1	2	3	4	5	6	7	8	9	10	11	12
1.	1953	5·93	25·27	·932	420·60	98,838	92·40	47,028	34	29·00	542·00
2.	1954	7·47	18·23	2·645	410·01	20,060	67·21	22,514	279	101·57	578·79
3.	1955	11·16	30·95	5·397	779·54	1,741,978	327·83	77,437	889	79·55	1,186·93
4.	1956	8·01	14·83	2·098	420·32	721,199	80·88	16,903	462	12·15	513·36
5.	1957	4·97	7·78	·450	145·56	314,577	52·74	7,537	304	41·96	240·27
6.	1958	6·23	11·43	1·490	435·34	461,316	61·63	18,766	400	17·91	514·89
7.	1959	4·19	13·88	1·540	572·16	652,622	94·40	66,479	622	120·23	786·80
8.	1960	7·63	8·68	2·650	461·32	651,720	148·26	13,982	520	64·84	674·42
9.	1961	6·53	9·30	1·825	249·45	817,861	9·70	180,611	389	63·41	322·56
10.	1962	6·12	15·73	3·558	802·86	520,741	114·54	39,814	354	10·50	927·91
11.	1963	3·56	11·09	1·970	312·36	406,994	37·27	4,915	419	31·20	380·83
12.	1964	4·62	13·99	2·470	570·83	266,634	47·98	5,430	695	53·64	672·45
13.	1965	1·03	3·30	·250	54·12	32,451	1·57	7,294	88	·42	56·11
14.	1966	4·22	12·41	1·610	640·40	156,601	7·70	8,868	165	4·10	642·40
15.	1967	7·07	26·50	3·295	1,195·50	601,316	98·40	5,921	358	73·80	1,367·70
16.	1968	8·24	21·47	2·597	1,371·00	798,661	402·83	130,356	3,498	253·33	2,044·30
17.	1969	9·53	32·00	4·341	2,110·19	1,242,237	537·88	270,173	1,401	685·05	3,333·10
18.	1970	8·45	32·24	4·850	1,617·81	1,434,029	486·06	19,198	1,076	764·33	2,868·20
19.	1971	12·05	57·00	5·87	1,326·00	588,000	—	1,000	1,000	—	6,200·00

Average Flood Damage to Crops in States 1953-70 (in million Rs.) : Andhra Pradesh 126·70, Assam 58·54, Bihar 123·62, Gujarat 11·65, Haryana (1967-70) 38·16, Himachal Pradesh 0·34, Jammu and Kashmir 0·48, Kerala 6·07, Madhya Pradesh 0·59, Maharashtra 8·26, Mysore 2·29, Orissa 59·24, Punjab 62·26, Rajasthan 15·39, Tamil Nadu 1·11, Uttar Pradesh 195·38, West Bengal 133·22, Delhi 3·83, Manipur 0·18, Tripura 1·78.

FLOOD CONTROL

It was only in 1954, that a comprehensive National Flood Control Policy came into being. It was to be implemented in 3 stages.

(*a*) Immediate measures—which needed to be completed in 2 years or so.

(*b*) Short-term measures — which included the construction of channel diversions, raising of villages, construction of more embankments, and protection of more towns (to be executed over 6-7 years).

(*c*) Long-term measures — includes storage reservoirs, detention basins, additional embankments, channel diversions and protection of towns (to be completed and taken up in stages).

Rs. 1,500 million were spent in the First, Second and the Third Five Year Plans for flood control. By now Rs. 2,250 million have been spent to protect 25 per cent of the flood-prone area. An outlay of Rs. 10,000 million is needed to protect most of the area which is normally affected by floods. Total and all time protection is not possible as the factors that lead to floods are variable and estimates have to suit these factors. However, by the end of March 1971, 7,000 km. of embankments, 10,000 km. of drainage channels, and 191 town protection schemes had been completed to benefit an area of 6·2 m. hectares. 4,600 villages have been raised above high flood level and 80 km. of sea coast protected. Actual outlay on flood control, drainage and water-logging and sea coast protection schemes :—

I Plan	Rs. 133	million
II ,, ...	Rs. 499	,,
III ,, ...	Rs. 866	,,
IV ,, ...	Rs. 1,430	,,
1966-69	Rs. 438	,,
1969-71	Rs. 443	,,

Measures suggested by experts for flood control are :

1. Deepening and widening of rivers and canals.
2. Digging of new drains.
3. Diversion of rivers and nalas to more natural flow levels.
4. Joining up of all rivers by an internal water system.
5. Additions and improvements of flood forecasting units in existence.
6. Inspection of flood control works.
7. Soil conservation measures.
8. Anti sea-erosion works.
9. Drainage works.
10. Training and maintenance of flood fighting teams and equipment.
11. Planting of millions of trees in the catchment areas of the rivers to reduce the rapidity of the flow of river and resulting erosion of soil.

MAJOR FLOOD CONTROL SCHEMES

1968-69 : 1. Continued work on new embankments, river training works, town protection work and improvement of drainage etc.

2. Work on Ukai Dam (for regulating water on Tapti River near Surat) was accelerated.
3. Breaches in embankments in North Bengal were being closed and new ones near Jalpaiguri town remodelled.
4. Model studies taken up to determine the size and location of waterways in the Jalpaiguri railway bridge across Teesta.
5. Schemes to improve drainage schemes in West Bengal.
6. Proposal to raise and strengthen, wherever necessary, the Kosi embankment and to extend the Kamla Balan embankment to join W. Kosi embankment.
7. Proposal to set up centres at Surat, Jalpaiguri, Gauhati, Patna, Lucknow, Bhubaneshwar for scientific warning of floods.
8. Proposal to improve standard of maintenance of flood control works.
9. Action has been initiated for procuring of dredgers for experimental dredging.

1969-70 : 1. Attention to raising, strengthening, repair and restoration of embankments in Assam and West Bengal.

2. 6 major flood control schemes sanctioned at the cost of Rs. 360 millions.
   - (*a*) Dubda (Rs. 26·8 million) } W. Bengal
   - (*b*) Kaliaghye (Rs. 29·6 million) } W. Bengal
   - (*c*) Bagmati (Rs. 65 million) } Bihar
   - (*d*) Mahananda (Rs. 53 million) } Bihar
   - (*e*) Kolleru Basin, Krishna and Godavari Deltas (Rs. 134 million) — A.P.
   - (*f*) Goverdhan Drain remodelling (Rs. 48·3 million) — Haryana, Punjab and Rajasthan.
3. Orders placed for dredgers for experimental dredging as anti-erosion measure in Brahmaputra valley.
4. Works to check erosion at various places along the banks of Ganga and Brahmaputra.
5. Centres set up in Surat, Jalpaiguri, Gauhati, Patna and Balasore for flood forecasts.

1970-71 : 1. Krishna-Godavari delta — A.P.

2. Erosion checking at Kokilamukh — Assam.
3. Anti-erosion work on river Great Gandak — U.P.
4. Kaliaghye Kantakhali drainage — W. Bengal.
5. Repairing and strengthening of spurs near Mansi railway station to check erosion of Ganga — U.P.
6. Protection of Gaighat village on the left bank of Ganga — U.P.

Schemes Approved : Eastern Mograhat — Rs. 29·6 million.

Drainage improvement in lower Damodar Stage I — Rs. 68·2 million.

Construction of embankment on Subarnarekha (W. Bengal) Rs. 12·8 million.

Anti-erosion on River Tapti in Gujarat — Rs. 52·1 million.

Schemes Recommended for Approval : Construction of embankment on Bhutai Balan (Bihar) — Rs. 9·2 million.

Anti-erosion near Chitauni on Great Gandak (U.P.) — Rs. 8·9 million.

Schemes Prepared and Being Finalised: Construction of embankments on River Subarnarekha in Orissa — Rs. 108·4 million.

Construction of embankments on Mahananda in West Bengal — Rs. 36·11 million.

Lining of Najafgarh drain and construction of cunnette (Delhi) — Rs. 21·3 million.

Improvement of storm water drainage system in Shahdara (Delhi) — Rs. 10·6 million.

Drainage Problem : This is prevalent in intensively cultivated areas of Haryana, Punjab, low-lying fertile areas of West Bengal (24 Parganas, Midnapore) and highly irrigated areas in the deltas of Mahanadi, Krishna, Godavari, and Cauvery rivers. Inadequate drainage in some areas (in Punjab, Haryana, part of U.P.) had led to waterlogging rendering the area unproductive due to excessive salinity.

Money spent on drainage in the last decade has been Rs. 490 million (60 per cent of this has been spent in Haryana and Punjab). Future cost is estimated to be Rs. 2,000 million because the money spent has effectively reduced drainage congestion and waterlogging.

Sea Erosion : Erosion has occurred in patches in A.P., Orissa, Mysore and Maharashtra. It was serious in 550 km. of Kerala. So far only Rs. 90 million has been spent in the State to protect only 80 km. of coastline. Future estimate for sea erosion would be about Rs. 450 million of which Rs. 400 million would be for Kerala alone.

Policy : It has been the practice to allot funds for flood control on the basis of what can be spared, rather than actual need. It is suggested that the outlays should be based on requirements of works which are already taken up or which are ready to be taken up. This assessment should be made in the 3 categories of works : flood control, drainage, and anti-sea-erosion. This exercise can be useful in assessing schemes that cannot be postponed or for which additional finance is indispensable. The ideal form of flood control would be to have both reservoirs and embankments as on river Mahanadi in Orissa. But because of paucity of funds, it is not possible. Some of the damage can be avoided if people are not allowed to live in flood-prone areas. But problem of population makes it impossible.

MONSOON RAINFALL SUMMARY
JUNE TO SEPTEMBER 1972

Advance of Monsoon: The south-west monsoon temporarily advanced over south Peninsula towards the end of the second week of May but again retreated towards the end of the third week. It revived over Kerala by as late a date as 18th June; subsequently it covered the entire country by 9th July. The advance of the monsoon over the Peninsula and north-east India was delayed by 10 to 15 days, and over the central parts of the country by a week. Its advance into north-west India was nevertheless approximately near the normal date of onset in this area.

Activity of the Monsoon: The monsoon activity was normal in northeast India, extreme north-west India, Madhya Pradesh and the south Peninsula but weak in north Peninsula, Rajasthan and Bihar Plains. The delayed onset of the monsoon in June and a prolonged break in the second half of July led to droughts in many parts of north India and north Peninsula.

Withdrawal of the Monsoon: The south-west monsoon withdrew from north-west India on 6th September. By the end of that month, it had withdrawn from Uttar Pradesh, Madhya Pradesh, Bihar, Gujarat and Maharashtra States. It withdrew from the rest of north-east India by 3rd October and from the rest of the country by 14th October. The withdrawal of the monsoon from north India and north Peninsula was about a week to 10 days earlier than the normal date of withdrawal.

Depressions and Cyclones: Three cyclonic storms and six depressions developed during the south-west monsoon. The three cyclones formed in the Bay of Bengal; while, out of the six depressions, two formed in the Arabian Sea, two in the Bay of Bengal and two over land.

Season's Rainfall: The rainfall for the season June to September 1972 was in large defect in Saurashtra and Kutch, in moderate defect in Nagaland, Manipur, Mizoram and Tripura, Sub-Himalaya West Bengal, Bihar Plains, east Uttar Pradesh, Himachal Pradesh, Jammu and Kashmir, Rajasthan, Gujarat Region, Madhya Maharashtra, Marathwada, Vidarbha, Telangana and Rayalaseema and in slight defect in Arunachal Pradesh, Bihar Plateau, in the plains of west Uttar Pradesh, in Punjab, Madhya Pradesh, Konkan, coastal Andhra Pradesh, coastal and north Interior Mysore, Kerala and the Arabian Sea Islands. It was normal over the rest of the country.

DROUGHT

BACKGROUND

CONSTANT famine has been so important a cause of economic dislocation, that the British Government appointed a commission in 1878 to enquire into the problem. One of its important contributions was to draft the Famine Code which was formalised in 1883. This laid down the procedure to be followed by the Government machinery at the first sign of scarcity conditions appearing in any area. Further periodic studies have been undertaken to modify the scarcity relief measures, and cropping pattern. However, the problem remains the same and scarcity conditions continue to occur almost every five years, on an average, in different parts of the country.

India on an average receives 3,700,400 cubic inches of rain — enough to cover the country with 114·30 cm. of water. But there is a variation in the seasonal and the annual distribution of rainfall. Some parts of Rajasthan get as low as 12·70 cms. of rain while hills of Assam get as much as 1,270 cm. About 12 per cent of the country's area receives less than 61 cms. of rain on an average and only 8 per cent more than 254 cms.

This erratic nature of the monsoon with long dry spells and high temperature, spells drought and scarcity conditions in the country.

Eighty per cent Indians live on agriculture, but produce only 45 per cent of GNP. Estimated harvest in India is about 100 million tonnes. However, to reach self-sufficiency we need about 120 million tonnes.

Drought Prone Areas: Against 194·24 million hectares cultivable area in the country, gross cultivated area is 157·82 million hectares. But irrigation is available for only 36·42 million hectares. This is only 23 per cent of the cultivated land. The rest (77 per cent) is still at the mercy of the monsoons. Out of the irrigated area only two-thirds has assured irrigation, one-third is irrigated by small tanks and wells which are undependable in dry years. However, irrigation potential of the country is estimated to be enough for 81 million hectares, of which only 60–70 million hectares can be assured of water supply.

Indian dry regions cover nearly 312,490 sq. kms. Of this about 63 per cent falls in Rajasthan alone. Arid zone of Rajasthan forms a part of the great Indian desert and covers three-fifths of the State. The zone comprises eleven districts in the north-western parts of the State.

Drought in 1972: Many parts of the country experienced severe drought conditions. With scanty rainfall in Andhra Pradesh, Bihar, Gujarat, Madhya Pradesh, Maharashtra and Rajasthan the crops in these regions were a total failure. The north and north-eastern parts of Mysore, Tamil Nadu, Tripura and West Bengal were also partially affected.

The 1972 drought was worse than the one in 1966-67. More than 200 million people were affected. The state governments had to take on 69,594 relief projects giving employment to 4.2 million people as against 2.5 million employed on relief projects in 1966-67.

Besides those employed on relief projects 1.7 million people were given gratuitous relief and about 3 million people received free meals.

Upto January, 1973, the Central Government had agreed to give the states grants amounting to Rs. 1,930 million of which Rs. 650 million had already been given.

In addition the Central Government had earmarked Rs. 1,500 million for the emergency food production programme and Rs. 1,000 million as short-term input loans to states.

The crop failures due to drought had resulted in a steep fall in the annual food production. According to 1971-72 population estimates the country requires 120 million tonnes of foodgrains to become self-sufficient. In 1970-71 the production of foodgrains was only 107.81 million tonnes. Current estimates in January 1973, showed that the government expected to reap only 100 million tonnes of food. For the period January-February, 1973, the Central Government negotiated to import 2 million tonnes of grains from the open markets of Canada, United States and Argentina.

Distribution: For equitable distribution 158,000 fair price shops have been opened throughout the country. But more than two-thirds of these are in cities. An estimated million tonnes of grains are sold through these shops each month. This step has been taken by the government to check the rising prices due to scarcity.

Drought Relief

Year	People affected	People employed in relief works	People granted gratuitous relief	People fed by CARE	Central Government Assistance to States
1968-69	63·1 million	1·6 million	194,000	145,000	Rs. 1,060 million
1969–70	55·3 million	2·28 million	34,000	985,000	Rs. 895·2 million
1970–71	15 million	424,000	—	1·72 million	Rs. 402·2 million
1971–72	66.8 million	835,000	—	767,000	Rs. 356.5 million

Drought Relief: Central assistance to drought areas amounted to Rs. 820 million in 1966–67; Rs. 760 million in 1967–68; Rs. 1,060 million in 1968–69; Rs. 895·2 million in 1969–70; and Rs. 402·2 million in 1970–71. In a bad year, drought relief normally amounts to around Rs. 1,000 million.

Most of the Central assistance is in the form of temporary measures on an ad hoc basis, aiming at maintaining the purchasing power of the affected population and keeping idle land-labour occupied.

Such measures comprise of construction and improvement of minor irrigation works like wells, tanks, soil conservation by contour bunding, improvement by irrigation canals, afforestation, construction and improvement of roads besides granting gratuitous relief and loans. No long term benefit accrues from these ad hoc measures. 'Taccavi' loans are seldom recovered; a lot of money is spent on feeding the affected population and in providing them short-term employment and gratuitous relief wherever necessary.

Expenditure on drought relief during the Plan periods. First Plan (1951–52 to 1955–56) Rs. 433 million; Second Plan (1956–57 to 1960–61) Rs. 769 million; Third Plan (1961–62 to 1965–66) — Rs. 867 million; Fourth Plan (1966–67 to 1970–71) Rs. 5,220 million.

Remedial Measures Suggested: Experts agree that the need of the hour is projects like Tungabhadra in Andhra Pradesh and Mysore. Extensive and variety of surveys in the drought affected areas need to be undertaken. Lift irrigation schemes should also be given priority. Drought can be fought effectively if major and medium scale irrigation and tube-well schemes are implemented. The only hope in arid zones lies in harnessing ground water resources and conservation and efficient utilisation of moisture by such measures as bunding, creation of shelter belts or wind breaks for crop lands.

Development and spread of dry-farming techniques, use of high yielding varieties, fertilisers and plant protection measures should also be evolved. Varieties of crops that withstand drought, could also be encouraged.

Central Arid Zone Research Institute, Jodhpur, Exploratory Tubewell Organisation and Rajasthan Ground Water Board are some of the bodies working towards this end. Recently Indian Council of Agricultural Research has also set up 24 dry farming research stations in different parts of the country.

DROUGHT CALENDAR FOR THE LAST THREE YEARS

1969-70

Rajasthan: Drought conditions in 23 districts of the State. Out of a total of 32,000 villages 26,000 hit. A population of 7·20 million affected. Rs. 535 million assistance granted for 1969–70. 16,175 received gratuitous relief. Rs. 400 million spent from April to September 1969.

Gujarat: Famine in parts of Gujarat. Half a million affected in Surendranagar district. 609,000 hectares of land lay waste. 5,000 villages in north Gujarat hit.

West Bengal: 2·3 million affected in Purulia and Bankura districts. 60 starvation deaths.

Bihar: 5 million people in south Bihar affected. Food production worth Rs. 1,480 million lost.

M.P.: Scarcity conditions in parts of Raipur, Bilaspur and Rewa divisions.

1970-71

Andhra: 21 districts affected. 12 deaths reported. Central assistance of Rs. 20 million. Rs. 2,000 million loss incurred.

Mysore: 17,353 villages and 41·6 million people affected. 75,000 engaged in relief works.

Maharashtra: 23,000 out of 36,000 villages affected. 700,000 to 800,000 engaged on relief work and 11,000 granted gratuitous relief. 21 districts and 16·5 million people hit. Rs. 80 million relief announced by the government.

Haryana: Scarcity in parts of the State.

Bihar: 21 districts affected.

Jammu & Kashmir: Scarcity conditions prevailed.

Tamil Nadu: 6 districts affected.

U.P.: 27 districts affected.

Rajasthan: Scarcity declared in 9,961 villages of 16 districts affecting 7 million people. Rs. 260 million relief measures announced by the State government.

Drought damage for 1972

State	People affected (million)	Area	Crop Loss	Central Assistance Given (million)	Central Assistance Required (million)
				Rs.	Rs.
Bihar	20	2/3	Rs. 2,500 million (328,000 tonnes)	192	660
Uttar Pradesh	50	91,000 villages out of 182,000	Rs. 1,940 million (2 m. tonnes)	305·3	—

Drought damage for 1972—*(Contd.)*

State	People affected (million)	Area	Crop Loss	Central Assistance Given (million)	Central Assistance Required (million)
				Rs.	Rs.
Mysore	10	15,000 villages out of 26,377	Rs. 950 million (60,000 tonnes)	77·5	300
Gujarat	14	12,000 villages out of 18,000	Rs. 1,000 million (650,000 tonnes)	70	920
Andhra Pradesh	23	17,353 villages out of 27,084	Rs. 6,000 million (40%)	280	600–800
Rajasthan	15	20,000 villages	Rs. 45 million	95	720
Maharashtra	20	25,000 villages out of 35,851	Rs. 3,150 million (70%)	200	1,230

FORESTS

TOTAL forests: 75·3 mill. hectares. Percentage of forests to land: 23·1. Per capita forest area 0·15 hectares.

During the year 1970-71 forestry activities provided employment to about three million persons.

Revenue from forests: Rs. 980 million. Forest revenue as percentage to national revenue: 2·44.

The forests are unevenly distributed and the production is also proportionately low, being only 0·28 cu. m. per hectare per year as compared to 3·923 cu. m. in France, 2·8 cu. m. in Japan and 1·25 cu. m. in U.S.A.

Private Forests: In Assam 1,036 sq. kms. (in Khasi and Jaintia Hills), Orissa 1,554 sq. kms. mostly in zamindari agencies, Punjab 880·6 sq. kms. in scattered units, and Himachal Pradesh 75·11 sq. kms. in Jabbal Division.

Kerala has passed legislation abolishing the rights of present owners of forest lands with effect from May 1971.

On the basis of the requirements of management, forests have been classified into five broad groups: viz. (1) moist tropical forests; (2) dry tropical forests; (3) sub-tropical forests; (4) temperate forests; (5) alpine forests.

Moist Tropical Forests: These consist of several sub-groups, namely, (*a*) tropical wet ever-green and (*b*) semi-ever-green occurring in the Western Ghats, Assam and Andaman. Tropical moist deciduous forests are found in moister parts of Uttar Pradesh, Madhya Pradesh, Maharashtra, Mysore, Madras, Orissa, Kerala and Andamans.

The characteristic wild life associated with this type is represented by the tiger, leopard, clouded-leopard, gibbon, golden-cat, deer of all species including thamin deer, one-horned rhinoceros and elephant in the eastern range. The forest is also rich in bird life which includes paradise flycatchers and a large variety of insectivorous birds.

Dry Tropical Forests: These are divided into tropical dry deciduous forests extending from Cape Comorin to the foot-hills of the Himalayas and the tropical thorn forests found in south Punjab, Haryana, eastern Rajasthan, Upper Gangetic plains, Deccan plateau and lower peninsular India. The former contains teak, adina, dalbergia, anogeissus, latifolia etc. whereas the thorn forests have acacias.

The wild life seen in these forests are: black-buck, Indian gazelle, tiger, leopard, chital, sambhar, sloth-bear and wild dog, and birds such as peacocks, bulbuls, parrots, golden eagle, king vulture, scavenging vulture, and a variety of kites. The fauna of the tropical thorn forest is represented by nilgai, four-horned antelope, sloth-bear, leopard, desert fox, desert cat and porcupine.

Sub-Tropical Forests: The Himalayas are occupied by this type of forests stretching from Assam to Kashmir. Nilgiri and Palani hills forests are comparable in climate to the forests in the lower hills of the Himalayas.

The green species found in the forest are broad-leaved types like Phoebe, Maples, Michelias, etc.

The sub-tropical type of forest is the main habitat of the tiger, elephant, sambhar, buffalo, chital, hog deer, swamp deer, kashmiri stag, ibis and markhor, musk deer, Himalayan black bear and a large variety of birds.

Temperate Forests: This type of forests contain a number of broad-leaved evergreen species of oaks, litseas, walnuts, magnolias, spruce, fir and deodar. Mosses and ferns grow freely and profusely in these forests.

The main species of wild animals found are badgers, snow leopard, goat-antelopes like goral, serow, panda and colourful birds like magpie, parrot and pheasants including the munals.

Alpine Forests: These forests are divided into the unusually dry and moist sub-types. The sub-Alpine forests occur at the uppermost level. They are composed of fir, spruce and rhododendron. The dry scrub species are xerophytic and *junipers*, lonicera etc.

The treeless zone is the habitat of the Tibetan sheep, bharal, woolly hare with occasional appearance of snow leopard.

About 16 per cent of the total forest area is inaccessible and 45 per cent of these could yield timber and other forest produce.

Forest is a State subject but the Central Government is responsible for research and education.

EDUCATION AND RESEARCH

Forest research and education are centralised in the Forest Research Institute and Colleges located at Dehra Dun. The Institute is recognised by the F.A.O. as a centre for training in forestry for South-East Asia.

The Forest Research Institute and Colleges are under the administrative control of the Ministry of Agriculture of the Government of India. Its administrative Head is designated the President. It has under its control three **Regional Forest Research Centres,** one each at Bangalore, Jabalpur and Coimbatore to deal with the special problems pertaining to the area.

The institute was reorganised into four directorates working under the President, *viz.*, (1) The Directorate of Forest Education with 3 forestry colleges under it, two at Dehra Dun and one at Coimbatore, (2) The Directorate of Forestry Research having five branches — the Silviculture branch, the logging branch, the forest genetics branch, the minor forest products branch, and the forest economics branch, (3) the Directorate of Biological Research having four branches — the systematic botany branch, the forest pathology branch, the entomology branch, and the wood anatomy branch, (4) the Directorate of Forest Products Research having eight branches — the wood seasoning branch, the composite wood branch, the cellulose and paper branch, the timber mechanics branch, the timber engineering branch, the chemistry of forest products branch, the wood preservation branch and the wood working, saw milling and finishing branch. Besides the administrative side, the statistical branch dealing with the appropriate methods of collecting, analysing and then interpreting the numerical data in various fields of forestry and forest product research is under the President of the Institute. Similarly service branch dealing with engineering services like the designing of pilot plants, erection of heavy plant and equipment, advice in the selection of equipment, servicing and repair of machinery and apparatus, etc. renders service to all the branches. A publicity and liaison branch entrusted with the responsibility of publicising the results of researches and for maintaining liaison with the State Forest Departments, the forest based industries and the general public exists in the Institute.

Training Schemes: Training courses (under the aegis of the Government of India/F.A.O./United Nation's Development Programme) in basic logging have been started in the Northern Zone (Dehra Dun), Central Zone (Chandrapur) and in the Southern Zone (Coimbatore). Training courses in the operation and maintenance of logging equipment, studies in planning and efficiency of logging operations and land milling and operation in cable ways are run at Dehra Dun, Chandrapur and Kula respectively. During 1971-72, an expenditure of Rs 0·513 million was incurred.

In the year 1971-72, 26 I.F.S. probationers and 49 other forest officers in different courses and 110 Rangers passed out from the 3 colleges to man the forest services of the country.

A new Ranger's college is also proposed to be started in central India, in addition to the existing colleges at Dehra Dun and Coimbatore.

Development Surveys: Out of the five centrally sponsored schemes (1) Forest Resource Survey, (2) Preinvestment survey of forest resources, (3) Logging Training Centres, (4) Delhi Zoological Park and (5) Forest Research Institute, the second and the third were hitherto financed from U.N. Special Fund. The preinvestment survey managed entirely by Indian personnel is for ascertaining the availability of new materials for the development of wood based industries and is being taken up in the Fourth Plan. The logging training centres are for imparting modern technique with modern tools to Indian personnel. The manufacture of such modern logging tools indigenously is also one of the objectives.

FOREST PRODUCE

Forest produce is divided into two main heads — (1) Major produce, *i.e.*, timber and firewood, and (2) Minor produce, comprising all other products, such as bamboos, canes, leaves, fruits, fibres, grasses, gums, resins, essential oils, medicinal and poisonous plants, fatty oils and fats, dyes, tans, animal and mineral products.

The annual output of timber is 83·00 million c.m. and of firewood 213 million c.m. At present annual import of wood and wood products is of the order of 12·19 million c.m.

The bulk of the timber supply is used for railway sleepers, constructional requirements, furniture, plywood (especially for tea chests), matches, etc.; but the country imports timber for specialised uses such as jute and textile mill accessories.

India exports selected rosewood logs to Europe, teak poles to the Middle East and a few other items.

A. N. Islands: From April to December 1970, about 62,700 c. metres of timber was cut and 12,000 c. metres shipped to the mainland. About 607 hectares have been brought under teak, paduk and match-wood plantations.

PLANTATION SCHEMES

Three important schemes, (*i*) Plantation of quick growing species; (*ii*) Plantation of economic species (teak, sissoo, semal, etc.); and, (*iii*) Plantations to be raised under the scheme of rehabilitation of degraded forests will be taken up in the Fourth Plan.

The forests which would have to be cleared to raise the plantations proposed in the Fourth Plan are expected to make available approximately 4·8 million cubic metres.

Wild Life Societies: The following are some of the more important societies concerned with conservation in India: (1) Bombay Natural History Society, Hornbill House, Shahid Bhagat Singh Road, Bombay 1; (2) Wild Life Preservation Society of India, 7, Ashley Hall, Dehra Dun, U.P.; (3) World Wild Life Fund Indian National Appeal, Hornbill House, Shahid Bhagat Singh Road, Bombay 1; (4) Peermade Wild Life Preservation Society, Stagbrook Estate, Peermade P.O., Kerala; (5) Nilgiri Wild Life Association, Ootacamund, Nilgiris, S.I.; (6) Gujarat Natural History Society, 57, Pritamnagar, Ellis Bridge, Ahmedabad 6; (7) Birdwatchers' Field Club of India, 32-A, Juhu Lane, Andheri, Bombay 56; (8) High Range Game Association, Munnar P.O., Kerala.

FISHERIES

WITH an approximate annual catch of 1·8 million tonnes India ranks third in the world list of fishing countries.

Number of Crafts Used : A total of 2 million of all sizes. At the end of March, 1972, there were 10,762 mechanised boats.

Per Capita Availability : Each fisherman on an average catches 1,130 kgs of fish a year. Per capita availability in India as compared to some Asian countries is: India — 1·5 kgs; Ceylon — 7·29 kgs; Burma — 31·75 kgs ; Japan — 40·82 kgs.

Employment: Over one million persons are employed.

Contribution to National Income : Rs. 600 million a year.

Exports : Of Marine products from India during 1972, totalled over 38,200 tonnes valued at Rs. 582 million against 34,000 tonnes valued at Rs. 392 million in 1971, registering an all time record with an increase of 12·5 per cent in quantity and 48·4 per cent in value.

Total Landings : In 1971 about 1·88 million tonnes of fish were caught against the previous year's 1·75 million tonnes. This includes 1·18 million tonnes of marine fish and 700,000 tonnes of inland fish.

Extent of Resources : Theoretical estimates place the mass of fish in the Indian ocean to be about 40 million tonnes, of which only 2·5 million tonnes are being harvested with India contributing 1·2 million tonnes.

Fishing operations would have to be stepped up to about 10 to 11 million tonnes to bring it on par with operations in the Pacific and Atlantic Oceans.

Given below is the present and potential yield from the shelf area of the Indian ocean which is separate from the yield of the ocean itself.

Area	1971 Provisional		Potential	
	Demersal	Pelagic	Demersal	Pelagic
West Coast	284,311	587,553	577,000	1,020,000
East Coast	121,584	159,627	143,000	672,000
Laccadives	394	806	7,000	22,000
Andaman & Nicobar	195	374	400	8,000
Total	406,484	748,360	731,000	1,722,000

Surveys conducted reveal the Indian ocean to be full of rich tuna among other fishes which are being harvested by Japan, South Korea and Taiwan.

India's problem is that 72 per cent of its catch is brought in by non-mechanised boats who scour only the coastline to catch shrimps and prawns, which earn the highest amount of foreign exchange.

Besides tuna the offshore stock of oil sardines too is immense.

Growth since Independence : From an estimated catch of 700,000 tonnes in 1947 it has gone upto 1,756,098 tonnes in 1970 of which 1,085,607 tonnes was marine fish.

During the same period the world catch rose from an estimated 18 million tonnes in 1947 to 69·3 million tonnes in 1970.

Types of Fish Caught : There are almost 26 important types of marine fish caught along the Indian coast. Following is the list of names and the quantity in metric tonnes caught during the year 1970:

Sl. No.	Species	1970
1.	Elasmobranchs	43,439
2.	Eels	4,454
3.	Catfishes	50,725
4.	Chirocentrus	9,407
5.	(*a*) Oil sardine	225,690
	(*b*) Other sardine	51,309
	(*c*) Hilsailisha	1,052
	(*d*) Other Hilsa	9,448
	(*e*) Anchoviella	23,830
	(*f*) Thrissocles	13,812
	(*g*) Other Clupeids	28,460
6.	(*a*) Harpodon nehereus	72,103
	(*b*) Saurida, Saurus & Scopelus	2,809
7.	Hemiramphus Belone	1,679
8.	Flying fish	2,844
9.	Perches	14,096
10.	Red Mullets	2,130
11.	Polynemids	7,185
12.	Sciaenids	40.556
13.	Ribbon fish	26,394
14.	(*a*) Caranx	18,939
	(*b*) Chorinemus	1,939
	(*c*) Trachynotus	143
	(*d*) Other carangids	930
	(*e*) Coryphaenes	254
	(*f*) Elacate	518
15.	(*a*) Leiognathus	46,681
	(*b*) Gazza	148
16.	Lactarius	4,697
17.	Pomfret	22,679
18.	Mackerel	147,038
19.	Seerfish	13,206
20.	Tunnies	3,172
21.	Sphyraena	1,470
22.	Mugil	2,357
23.	Bregma Ceres	1,978
24.	Soles	13,324
25.	(*a*) Penaeid Prawns	88,972
	(*b*) Non-penaeid Prawns	26,229
	(*c*) Other Crustaceans	9,947
26.	Cephalopds	1,177
27.	Miscellaneous	38,182
	Total	1,075,402

Preservation and Transport : By the end of December, 1972, one broad gauge and two meter gauge refrigerated rail vans were almost complete. This brought the number of refrigerated rail vans in operation on all routes to 11.

Orders have been placed for 6 more refrigerated vans. One freezing plant with a storage capacity of 50 tonnes, 3 ice plants with daily production capacity of 108 tonnes, 2 cold storages with capacity of 615 tonnes and a frozen storage of 300 tonnes were commissioned during 1971-72.

Work was in progress on the construction of 25 ice plants, 22 cold storages, 6 freezing plants and 6 frozen storages.

Foreign Aid : The FAO, the TCM and the Indo-Norwegian Foundation give technical training to fishermen in the country.

RESEARCH

Central Stations : Central Inland Fisheries Research Institute, Barrackpore, W. Bengal; Central Marine Fisheries Research Institute, Mandapam, Tamil Nadu; Central Institute of Fisheries Technology, Ernakulam, Kerala.

Andhra Pradesh: Fresh Water Biology Station, Dept. of Fisheries, Vijayapuri South, Nagarjunasagar.

Gujarat : Marine Biological Research Station, Okha; Marine Fisheries Research Station, Veraval; Central Institute of Fisheries Technology, Veraval.

Kerala : Fisheries Technological Station, West Hill, Kozhikode-5, Fresh Water Biological Research Station, Malampuzha Dam, P.O., Palghat District. Lime Shell Research Station, Kumarakoin P.O., Kottayam District.

Tamil Nadu: Fisheries Technological Station, North Beach Road, Tuticorin-1; Fresh Water Biology Station, Bhavanisagar, Coimbatore District; Hydrobiological Research Station, Fisheries, 87 Poonamalle High Road, Kilpaulk, Madras-10.

Maharashtra : Fisheries Technological Laboratory, Sassoon Docks, Bombay; Taraporevala Marine Biological Research Station, Taraporevala Aquarium, Netaji Subhas Road, Bombay-2.

Mysore : Inland Fisheries Research Station, Bangalore.

Orissa: Fresh Water Biological Research Station, Kausalyaganj P.O., Via Bhubaneswar-2, Puri District.

West Bengal : Fresh Water Fisheries Research Station, Kalyani; Technological Research Station, Junpat; Brackish Water Experimental Fish Farm, Junpat; Hill-Stream Fisheries Research Station, Kalimpong.

TRAINING FACILITIES

Maharashtra: Central Institute of Fisheries Education, Versova; Training Centre, Satpati and Nawapur in Thana Dist.; Karanja and Bagmandla in Kolaba Dist.; Ratnagiri, Sakrinate, Mithbao, and Tarkarli in Ratnagiri Dist.; Fisheries High School at Satpati and Departmental Training Centres at Versova, Ratnagiri, Alibag, Kolaba and Bassein.

Gujarat : Fishermen Training Centre at Veraval, Saurashtra; Fishery Schools at Baroda, Bhadbhut, Umarsadi, and Kolak.

Kerala : Training Centres, Vizhinjam, Neendakara, Ernakulam, Beypore and Cannanore; Staff Training Centre and three Regional Fisheries Technical High Schools; Centre Institute of Fisheries Co-operatives, Cochin.

Andhra Pradesh : Fishermen Training Centre, Kakinada; Regional Training Centre, Hyderabad.

Mysore : Fishermen Training Centre, Mangalore; The Marine Products Training Centre, Mangalore.

STATE-WISE POSITION

Andhra Pradesh : With a 960 kms. coastline the State has a fishable area of 31,080 square kilometres. There are 350 fishing villages and about 100,000 persons engaged in the industry. Approximately a quarter of these are engaged in marine fishing and the rest in fresh water fishing. There are about 25,000 fishing crafts.

In 1970: 154,394 tonnes of marine fish and 95,651 tonnes of inland fish were landed.

Gujarat : It has a coastline of 1,663 kilometres and a fishable area of 120,000 sq. kms. There are 46 important fishing ports and 149 fishing hamlets. 256,000 people are engaged in the industry with 4,995 crafts of various sizes.

Total landings in 1971-72 amounted to 161,000 tonnes worth Rs. 108·6 million. Of this 34,966 tonnes were consumed in the State and the rest exported to Bombay, Delhi, Calcutta, Ceylon, Burma, Singapore, Mauritius and the U.S.A.

Kerala : With a coastline of only 590 kms. and 264 marine fishing villages the State is prolific in this industry. Of the total fish caught about 55 per cent is consumed fresh; 15 per cent canned, salted and sun-dried; 18 per cent frozen for export; 7 per cent used for preparing fish meal and oil extraction; and 5 per cent for the manufacture of fish manure.

With 10 per cent of the country's coastline the State accounts for 40 per cent of the total marine fish landings and 77 per cent of the foreign exchange earned through exports.

It is estimated that 60 per cent of the fish caught is consumed within the State, 22 per cent sent to other States and 18 per cent exported to foreign countries.

Tamil Nadu : The State has a coastline of 997·47 kms. and 790,000 hectares of inland waterspreads. There are about 400,000 fishermen living in 413 inland and 349 marine fishing villages. The per capita consumption of fish is 9·9 kgs.

Tamil Nadu has great potential for growth because the sea is rich with fish. Last year rich lobster grounds were discovered off the Mandapam coast. The Fisheries Department offers assistance to new enterprises.

The catch during 1970-71 was estimated at 205,000 tonnes of marine fish and 120,000 tonnes of inland fish.

Maharashtra : The State has a coastline of 700 kms. There are about 300,000 members of the fisher community of whom 55,800 are actively engaged in the fishing industry, 35,800 are in marine fishing and about 20,000 in inland fishing. The total number of vessels used is 9,696. Four fish farms and 30 nurseries in various parts of the State demonstrate the scientific methods of pisciculture under controlled conditions. They also produce fish seed. During 1971-72 the catch of marine fish amounted to 255,000 tonnes and that of inland fish to 13,500 tonnes. The total value was Rs. 256 million.

Mysore : The State has 321 kms. of coastline and 2,500 kms. of perennial rivers. It also has 19 major deep reservoirs; 32 major tanks; 2,100 minor tanks; 20,000 seasonal tanks and 2,500 kms. of irrigated canals. Of the 111,016 people in the fishing industry (1969-70), 23,710 are engaged in marine fishing. It has a fleet of 7,953 boats. Average catch per fisherman is 4·34 tonnes a year.

Orissa: There has been a great achievement in Marine, estuarine and inland fisheries. There are 103 inland fish farms and 4 marine fishing bases. In 1971-72 the catch amounted to 11,000 tonnes of marine fish, 19,000 tonnes of inland fish and 10,000 tonnes of estuarine fish.

West Bengal : The total quantity of fish caught in 1970-71 was 235,000 tonnes. The demand for fish in the local market however was 752,000 tonnes.

LIVESTOCK AND DAIRYING

LIVESTOCK plays an important part in the nation's economy. Its contribution is estimated to be over Rs. 30,000 million which does not include an estimated Rs. 4,000 million contributed indirectly through their labour on the agricultural fields.

Census : The last census was taken in 1966, according to which the livestock population (excluding poultry) was 343·7 million registering a 2·2 per cent. rise over the 1961 figure of 336·4 million. At this rate of growth over a period of five years the population in 1971 should be close to 350 million.

The break-up of this figure is : Cattle : 175·99 million ; Sheep : 40 million ; Goats : 64·5 million ; Buffaloes : 52·9 million ; Horses and ponies : 1·1 million ; Pigs : 4·9 million ; Camels : 1 million ; and other livestock 1·1 million. Poultry makes up an additional 115 million.

Meat Production : About 0·9 per cent of the cattle, 36 per cent of the goats and 32·5 per cent of the sheep population are slaughtered.

The annual production of various meats in million tonnes amounts to : 0·15 goats ; 0·11 sheep ; 0·12 beef ; 0·09 buffalo ; 0·02 pork. The total production is 0·46 million tonnes valued at Rs. 1,000 million.

The area cultivated by a pair of working animals is about 3·88 hectares.

CATTLE

They are divided into three broad categories. The milch cattle, the draught cattle and those that serve dual purpose.

Milch : The Sahiwal, the Kankrej and the Ongole are the best milk producers in that order. The Sahiwal yields 1814·4 kgs. a year. The others, including the Sindhi and the cattle from Saurashtra and Rajasthan, yield around 1678·3 kgs. a year.

Draught : The Amritmahal Hallikar of Mysore are good draught cattle but poor milkers.

Dual : The Galo of Madhya Pradesh, the Kangayam of South India, the Kankrej of Gujarat, the Haryana of Punjab, the Tharparkar of Gujarat and Rajasthan and the Ongole of Andhra Pradesh are all good draught animals yielding about 1360·8 kgs. of milk a year.

Cattle Breeding : Up to 1971 more than 50 breeding farms and projects had been established. Prominent foreign breeds like the Jersey, Friesein and Gurnsey have been imported together with frozen semen to cross breed these with the well-known local cattle. The FAO and other foreign agencies have been helping the programme with money and know-how.

BUFFALOES

There are 26 breeds of buffaloes but the best known are the murrah, nili and ravi of Punjab, the jafferabadi of Kathiawad, the mehsana of Gujarat, the nagpuri of Vidarbha and the surti and pandharpuri of Maharashtra. They yield about 1360·8 kgs. of milk for about 300-days of the year.

Average Yield : The average annual yield of a buffalo is 498·9 kgs. as against 187·3 kgs. of the cow. Besides buffalo milk is one and a half times richer in fat content making it more suited for butter and ghee production. A buffalo is far less expensive than a cow.

SHEEP

India produces over 35 million kgs. of wool annually with 40 per cent of this coming from Rajasthan alone.

Besides, sheep supply meat worth Rs. 120 million a year ; 15·3 million pieces of skin for the leather industry and a good deal of manure. One sheep contributes 0·5 to 0·7 tonnes of manure annually.

Breeding : Research to evolve superior strain of sheep for high quality wool is conducted in the three major sheep rearing tracts — temperate Himalayan, North Indian plains and the Deccan Plateau.

Under the Central sector the Government of India has established a large sheep breeding farm at Hissar in Haryana costing Rs. 11 million. The Australian government, under the Colombo Plan, has contributed sheep, equipment and experts at the cost of Rs. 7·35 million.

GOATS

Besides meat goats supply manure, skin, mohair and milk.

The important breeds are the himalayan goats found in Kashmir, Punjab and Uttar Pradesh, and the pashmini of Kashmir.

The himalayan and pashmini goats provide excellent mohair besides their meat. The other goats yield about 275 kgs. of milk in a lactation of 250 days.

POULTRY

The annual contribution by poultry to the country's economy is over Rs. 100 million.

The per capita consumption of eggs however is only 4 per annum compared to 400 in U.K., U.S.A. and Denmark.

A large number of poultry farms have sprung up throughout the country. The average production per day is 10,000 eggs and 300 birds.

Development : An intensive development programme has been undertaken by all State governments and research information, technical know-how and superior genetic stock are made available to anyone interested in poultry farming.

State-owned farms were expanded so that the five regional farms at Bombay, Bangalore, Bhopal, Delhi and Simla could produce 2·574 million eggs and 0·55 million birds and distribute 0·426 million breeding stock to other poultry farms in the country during 1970-71.

Fifteen poultry dressing plants with a capacity of 2,000 birds a day were procured from Australia and supplied to Assam, Andhra Pradesh, Bengal, Bihar, Gujarat, Haryana, Jammu and Kashmir, Kerala, Madhya Pradesh, Maharashtra, Mysore, Orissa, Rajasthan, Tamil Nadu and Uttar Pradesh.

PIGGERY

The country has seven bacon factories — one each in Andhra Pradesh, West Bengal, Bihar, Kerala, Maharashtra, Rajasthan and Uttar Pradesh. The eighth bacon factory is being set up in Chandigarh.

A model piggery has been set up at Gannavaram in Andhra Pradesh with the assistance of the Irish Government. About 6,000 foreign pigs (white Yorkshire and Landrace breed) were imported.

DAIRYING

Milk and milk products contribute about Rs. 6,200 million to the national income.

Of the 200 million cattle and buffaloes only 72 million or 36 per cent are milch animals. Besides the milk yield is low. Cows 186 kgs. a year and buffaloes 500 kgs. a year.

Gross production of milk is 20·65 million tonnes of which 13·2 million tonnes is marketed, the balance is used for home consumption or feeding calves.

Per Capita Consumption: The per capita consumption of milk and milk products varies from State to State. The average works out to 5·5 oz.

The per capita availability of milk in 1971 is about 6·25 ozs.

106 dairy plants were in operation during 1970-71 comprising 60 liquid milk plants, 36 pilot milk schemes, 7 milk powder factories and 3 creameries.

The average daily output of all plants was 2·25 million litres.

The average daily production of milk powder and infant food was 40 tonnes.

Cream, butter and ghee production amounts to about 30 tonnes a day.

A milk products plant at Miraj, a milk powder factory at Vijayawada and an infant food plant at Moradabad had been set up during 1970-71.

The Danish government had given credit for two milk powder plants in Uttar Pradesh and the Yugoslav Government for one in Haryana. These were to begin production in 1971-72.

List of dairy plants in operation

State	Plants in operation Average (1,000 litres)		
	Location	Capacity	Daily
A. Pradesh	Guntur	4·0	0·451
	Kurnool	4·0	0·930
Bihar	Barauni (Composite) (Cream in kg.)	2·0	22·00 kg +790 litre milk
	Bhagalpur	6·0	6·46
	Gaya	6·0	0·33
	Patna	10·0	2·21
Gujarat	Ahmedabad	275·0	55·0
	Anand (milk product) † (Composite)	200·0	135·14
	Baroda	35·0	17·64
	Bhavnagar	6·0	0·59
	Jamnagar	10·0	1·4
	Junagadh (Cream in kg.)	2000	—
	Mehsana (milk product)†	100·0	36·36
	Rajkot (milk product)†	37·5	12·86
	Surendranagar	6·0	0·74
Jammu & Kashmir	Srinagar	10·0	5·5
Kerala	Calicut	6·0	4·48
	Trivandrum	6·0	7·63
	Ernakulam	10·0	—
Madhya Pradesh	Bhopal	10·0	2·59
Maharashtra	Bombay (city)	460·0	330·61
	Kolhapur	6·0	4·95
	Nasik	6·0	1·6
	Poona	70·0	43·1
Mysore	Bangalore	50·0	19·77
	Kudige	4·0	1·56
Orissa	Cuttack	6·0	3·23
Punjab*	Amritsar (milk product)†	80·0	37·98
	Chandigarh	20·0	21·44
	Hissar	6·0	2·67
Rajasthan	Jaipur	6·0	4·94
Tamil Nadu	Coimbatore	10·0	10·93
	Kodaikanal	4·0	0·55
	Madras (city)	80·0	21·58
	Tiruchirapalli	6·0	6·5
U. Pradesh	Agra	6·0	2·36
	Aligarh (Creamery in kg.)	2000 (Cream)	1350 (Cream)
	Lucknow	40·0	11·16
West Bengal	Calcutta (city)	200·0	130·72
Tripura	Agartala	6·0	2·49
Centre	Delhi ‡	255·0	197·1

Besides these several medium and small size dairy plants are in operation. During 1970-71 about 3,000 milk producers co-operatives were organised.

Foreign Aid: With aid from the World Food Programme the Government of India has set up the Indian Dairy Corporation at Baroda to stimulate milk marketing and dairy development.

Against an anticipated investment of Rs. 78·1 million during the period July, 1970 to June 1971 the Corporation generated Rs. 37·2 million up to April 1971. For a five year period from 1970-75 the W.F.P. will supply 126,000 tonnes of skimmed milk powder and 42,000 tonnes of butter oil free.

After recombination of milk powder and oil into liquid milk at public sector dairies at Bombay, Calcutta, Delhi and Madras the milk will be sold and the expected sale proceeds of Rs. 954 million will be utilised for increasing milk processing facilities in the country.

ANIMAL DISEASES

Rinderpest causes a mortality of about 60 per cent resulting in an animal loss of 0·4 million heads of cattle, valued at Rs. 300 million. Kerala, Mysore and Tamil Nadu have rid themselves of this disease after an intensive eradication programme. The disease is still prevalent in Andhra Pradesh, Gujarat and Maharashtra where a pilot scheme to brand and vaccinate 12 million cattle has been in operation since October 1954.

The vaccination programme has helped to reduce the number of deaths in these three States from 0·2 million in 1954-55 to about 3,374 in 1969-70. The Centre has agreed to give a 100 per cent grant to most States and Union territories for intensification of the eradication programme.

RESEARCH AND EDUCATION

(1) The Indian Veterinary Research Institute, in Izatnagar and Mukteswar in Uttar Pradesh supplies sera and vaccine.

(2) Central Sheep and Wool Research Institute, Malpura, Rajasthan.

(3) National Dairy Research Institute, Head Office at Karnal in Haryana.

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* Composite State.

† Also manufactures infant milk food.

‡ Also manufactures milk products and infant milk food.

There are 15 agriculture universities in the country with departments of animal husbandry.

The 21 veterinary colleges are at Hyderabad and Tirupathi (A.P.); Gauhati (Assam); Patna and Ranchi (Bihar); Anand (Gujarat); Trichur (Kerala); Jabalpur and Mhow (Madhya Pradesh); Madras (Tamil Nadu); Bombay and Nagpur (Maharashtra); Hebbal (Mysore); Cuttack (Orissa); Hissar (Haryana); Bikaner (Rajasthan); Mathura, Naini Tal and Izatnagar (Uttar Pradesh); Kalyani and Calcutta (West Bengal).

ARECANUT INDUSTRY

ARECANUT is one of the most important commercial crops of India. It plays an important role in the religious, social and cultural life of our people irrespective of caste, creed or social status. Chewing of arecanut with betel leaves and lime (Thamboolam, Pan Supari) has become a habit with a large number of people and a luxury for many in this country.

Betel-nut (processed arecanut) varieties are numerous in India and can be broadly classified into unboiled, boiled and coloured varieties.

LOCATION OF THE INDUSTRY

The chief arecanut growing States are Kerala, Mysore and Assam. These States account for nearly 91 per cent of the total area and production. It is also cultivated to a smaller extent in certain areas of West Bengal, Tamil Nadu, Maharashtra, Andhra Pradesh and Goa. The State-wise break-up of the area under arecanut cultivation is given on the next page.

(In thousand hectares)

State	1968-69	1969-70	1970-71
Kerala	81·2	83·7	85·8
Mysore	34·9	38·6	41·0
Assam	27·4	21·8	23·2
Meghalaya	(—)	5·9	6·3
Tamil Nadu	3·2	3·8	4·0
West Bengal	3·1	3·1	3·1
Maharashtra	2·3	2·3	2·3
Andhra Pradesh ..	0·2	0·2	0·2
Goa	1·4	1·4	1·4
Total Area	153·7	160·8	167·3

No. of Persons Employed : About four million.

Ranking in the World Market : India ranks first in the world both in the area and production of arecanut.

The main arecanut producing countries in the world and their production are given below for 1969–70.

Country	Production (Tonnes)
India	137,800
Pakistan	57,056
Sri Lanka	56,670
Malaysia	N.A.

N.A. : Information not available.

CONSUMPTION

National consumption for the last three years, 1968-69 : 139,362 tonnes; 1969-70 : 137,574 tonnes; 1970-71 : 140,748 tonnes.

The overall average per capita consumption of betel-nut in India is estimated at 0·33 kg. In Kerala it is 0·67 kg. and in Mysore 0·66 kg. Among the cities, Delhi and Nagpur are two of the most important consuming markets.

PRODUCTION

The total value of arecanut produced in India is about Rs. 1,100 million. The State-wise break-up of the production is given below :

(In thousand tonnes)

State	1968-69	1969-70	1970-71
Kerala	50·6	51·9	53·0
Mysore	54·2	50·7	50·4
Assam	27·0	23·3	25·1
Meghalaya	—	3·9	4·2
Tamil Nadu	2·6	2·6	2·8
West Bengal	0·8	0·8	0·8
Maharashtra	2·5	3·1	3·2
Andhra Pradesh ..	0·2	0·2	0·2
Goa	1·2	1·3	1·3
Total Production (National)	139·1	137·8	141·0

EXPORTS

Arecanut is exported in small quantities to countries like Nepal, Kenya, Aden, Saudi Arabia etc. mainly for the use of Indian settlers abroad. The quantity exported during 1968-69 was 338 tonnes valued at Rs. 3·05 million; during 1969-70 it was 226 tonnes valued at Rs. 2·07 million; and during 1970-1971 it was 252 tonnes valued at Rs. 2·40 million.

IMPORTS

Production of arecanut had been short of internal demand and sizable quantities had to be imported to fill the gap, but the shortfall has since been almost covered by intensifying local production. 1968-69 was the last year when there were imports.

GENERAL

Yield per hectare 857 kgs.; cost of cultivation per hectare Rs. 1,420; and gross income earned per hectare Rs. 3,375.

There are 25 arecanut marketing co-operative societies located in Kerala, Mysore, Tamil Nadu, Maharashtra and Goa.

Regulated markets established in the important assembling centres in Mysore, Kerala (Malabar region) and Goa under the Agricultural Produce Markets Act, besides checking the malpractices prevailing in the trade, also collect and disseminate market intelligence for the benefit of growers and traders.

The Directorate of Arecanut and Spices Development of the Department of Agriculture, Government of India, is situated at 1/500, Cannanore Road, Calicut-673005, Kerala, and assists the growers and traders with their problems.

FOURTH-FIVE YEAR PLAN

The requirement of arecanut by the end of the Fourth Plan period is estimated to be 150,000 tonnes. It is expected that the production will reach this level by the end of the Fourth Plan without any further expansion of area but merely by adoption of intensive agricultural practices in the existing areas. Developmental programmes have already been drawn up.

Publication : 'Arecanut and Spices' (Quarterly bulletin) brought out by the Directorate of Arecanut and Spices Development, Calicut-673005, Kerala.

CASHEW-NUT INDUSTRY

BRIEF HISTORY

The cashew tree (Anacardium Occidentale), a native of South America was introduced into India by the Portuguese settlers who planted the first saplings on western Indian coast during the sixteenth or seventeenth century, primarily to check soil erosion. Finding a congenial home it grew extensively on the western coast where it is known as 'Feringi Mango' (Feringi meaning Portuguese).

Time was when the cashew fruit season, coming about the beginning of the year, was awaiting eagerly only by children, crows and cattle. When a few pioneering farmers in the early twenties collected its nuts and sent it abroad from whence a demand came for its kernels in the raw or roasted form, the prospects of establishing an industry became evident. The tree was then no longer despised as an unwelcome intruder into gardens, but began to be cultivated in a systematic way.

The cashew-nut grows at the bottom end of the cashew "apple". The fruit, when ripe, is juicy and sweet and rich in vitamin C. The juice is used in the preparation of syrup, squash, jam, candy and wine.

The cashew kernel is extracted from the nut by roasting, shelling and peeling. Now it is done mechanically and scientifically so that every drop of cashew-nut shell liquid exuding from the hard outer coat of the nut is drained and collected. This liquid is a dark brown viscous oil, easily soluble in most of the organic solvents. It is an important raw material in the manufacture of insulating varnishes, paints, typewriter rolls, oil and acid proof cold setting cements, industrial flooring tiles, automobile brake-linings and also in the plastic industry.

LOCATION OF THE INDUSTRY

Out of about 300 processing factories in the country 264 are in Kerala State. The processing areas outside Kerala are in Tamil Nadu, Mysore, Andhra Pradesh and Maharashtra.

Public Sector : One factory was started at Kottayam, Kerala by the Kerala State Cashew Development Corporation in June 1970. There is a proposal to start two more, one at Killikolloor outside Quilon and the other at Tellicherry in Malabar area.

The State Corporation is also managing at present 25 processing factories in and around Quilon and other places.

Ranking in the World Market : India accounts for about 65 per cent of the world export of cashew Kernels.

PRODUCTION AND CONSUMPTION

Production is about 100,000 tonnes of which 60,000 tonnes find its way to processing factories, the remaining 40,000 tonnes are presumably consumed domestically. Out of the 60,000 tonnes processed 98 per cent is exported.

EXPORTS

The demand for Indian cashew kernels in foreign markets began to be felt in the early 1920's. The first shipment of a little over 45 tonnes of cashew kernels was sent to the U.S.A. in 1923. Since then the demand for the product has been increasing with the years. A **Cashew Export Promotion Council** (at World Trade Centre, M. Gandhi Road, Ernakulam, Cochin 682016, Kerala), was set up in 1955 to help this export oriented industry.

The chief reason why India enjoyed for a long time the supremacy in export of cashew kernels is that processing of the raw nuts has been the monopoly of India. Now Kenya, Mozambique and Tanzania from where India imports the raw nuts, have started their own processing plants. This has hit India's exports considerably.

Cashew industry ranks second to jute in foreign exchange earnings and is regarded as one of the top seven.

Export Duty : There is a one per cent cess on exports.

Export of Cashew Kernels

(Quantity in Tonnes)

Countries	1969-70	1970-71	1971-72
U.S.A.	21,800	22,455	27,175
U.S.S.R.	26,300	14,752	18,947
U.K.	1,970	1,227	1,818
East Germany	1,850	3,318	1,038
Australia	1,550	1,099	1,242
Canada	1,650	2,223	3,904
France	480	201	202
Japan	460	858	1,289
Netherlands	630	643	930
Hong Kong	700	722	849
West Germany	560	371	468
Czechoslovakia	380	420	705
Lebanon	290	192	142
Belgium	80	52	168
Malaysia & Singapore	260	328	397
New Zealand	120	93	79
Iran	50	96	118
Poland	70	169	137
Sweden	50	8	15
Italy	70	27	79
Spain	300	76	32
Kuwait	80	83	96
Switzerland	40	19	40
Bahrain	40	68	107
Total exports including other countries	60,625	50,338	60,620
Value in Rs. million	574	520	615

Export of Cashew-nut Shell Liquid

(Tonnes)

Countries	1969-70	1970-71	1971-72
U.K.	3,950	3,217	3,002
U.S.A.	1,446	1,337	163
Japan	2,320	1,956	2,113
Australia	20	15	19
Netherlands ..	150	145	58
South Korea ..	60	85	135
Total exports including other countries ..	8,643	7,026	56,08
Value in Rs. Million	10·2	7·8	6·3

IMPORTS

The domestic supply of raw nuts is inadequate to meet the total requirements of the processing factories. The shortfall is made-up by importing raw nuts. This is being done by The Cashew Corporation of India Ltd., a subsidiary of State Trading Corporation, which was set up on August 19, 1970. The raw nuts are sold by the Corporation to the processing factories.

Import of raw cashew-nuts from East African countries during 1971-72 amounted to 157,457 tonnes valued at Rs. 253·4 million as against 169,359 tonnes valued at Rs. 294·1 million for 1970-71.

GENERAL

According to the study made by GATT, a good average crop from a mature plantation tree is around 10 kgs. in East Africa and 30 kgs. in India.

In Africa, the average yield of kernels is about 21 to 24 per cent of raw nut weight, while in India it is slightly higher. Indian processors claim to be able to get upto 70 per cent whole kernels, while the mechanical processing plants in Africa record upto 65 per cent.

The cost of processing of raw nuts is Rs. 38 per bag of about 77 kgs. in Kerala, while it is said to be as low as Rs. 14 in Tamil Nadu. The Indian cashew trade has been able to hold its own in the world market because of its competitive price even though some of the African countries have started factories adopting mechanical processes. The poor technology in the cashew industry in Kerala in which the operations are done manually accounts for the investment per worker being as low as about Rs. 300 per worker. Over 90 per cent of the workers are women who perform such delicate operations as shelling, peeling and grading of the nut.

FOURTH-FIVE YEAR PLAN

An estimated production target of 210,000 tonnes of raw cashew-nuts is sought to be achieved by the end of the Fourth Plan against the base level production of 180,000 tonnes at the end of 1968-69 through various development programmes, both in the State and Central sectors. These programmes are estimated to bring in 30,000 tonnes of raw nuts additionally during the end of Fourth Plan.

Under the State sector of the Plan, new areas extending upto 237,962 hectares are proposed to be brought under cashew. This will include 6,673 hectares under departmental plantations and 88,512 hectares under non-departmental plantations. In the Central sector, prime importance has been given to organising a cashew package programme, which will consist of setting up about 1,500 demonstration plots and coverage of 24,768 hectares of non-departmental plantations and 12,328 hectares of departmental plantations by plant protection measures. In addition to this, special schemes for area expansion in 5,000 hectares and package programme also in 5,000 hectares in departmental plantations has been sanctioned by the Government of India.

Publication : 'Cashew Bulletin' (monthly) and Indian Cashew Journal (quarterly), C/o Cashew Export Promotion Council, World Trade Centre, Mahatma Gandhi Road, Ernakulam, Cochin 682016.

COFFEE INDUSTRY

BRIEF HISTORY

THE coffee plant is thought to have originated in the highlands of Abyssinia. About 400 years ago coffee became established as a beverage in Arabia and Turkey from where it eventually came to Europe and to London in 1652.

The coffee plant is supposed to have been introduced in India by a Muslim saint who came from Mecca and made his home in Mysore. Some of the hilly areas of Mysore where coffee plantations abound even today, bear his name Baba Budan.

Although the saint came to India over a hundred years ago the cultivation of the coffee plant on a plantation scale and its status as a commercial crop came only with the efforts of the first British planters around 1850. Now the plantations are spread over vast hilly tracts of Mysore, Tamil Nadu and Kerala.

A small tree with many branches the coffee plant usually reaches heights ranging from 4·57 to 6·09 metres. The fruit is red and contains two interlinked seeds. These separated constitute the commercial coffee berry, and this, roasted and ground, produces the coffee powder for consumption.

LOCATION OF THE INDUSTRY

Coffee Arabica and Coffee Canephora (Robusta) are the two types of coffee grown on a commercial scale in India. The total area under coffee in the country is 136,453 hectares which is divided between Arabica coffee and Robusta coffee. The Arabica coffee occupies the major portion and accounts for 81,974 hectares as agianst 54,479 hectares under the Robusta coffee.

The south Indian States are the traditional coffee growing tracts. Mysore State having 60 per cent of the total area under coffee in the country comes first followed by Kerala having 22 per cent. Tamil Nadu has 17 per cent of the area and the remaining one per cent is scattered in the States of Andhra Pradesh, Maharashtra, Orissa, Assam and West Bengal besides the Andamans and Nicobar islands.

Of the 50,851 coffee estates in the country, 49,031 estates are small holdings having an area of ten hectares and below, and the remaining 1,820 are large holdings, above ten hectares in area. Mysore State has 17,907 small holdings and 1,297 large holdings.

No. of Persons Employed: 236,295.

Ranking in the World Market : Indian coffee contributes about 1 per cent of the world trade in coffee. The following table gives the total world exports and exports from India during the last three calendar years :—

Year	Total World Exports (In Tonnes)	Exports from India		Value of coffee as per cent of total exports
		Qty. (In Tonnes)	Value (In Million US Dollars)	
1969	3,355,920	34,020	27	1·5
1970	3,206,760	28,680	30	1·6
1971*	3,230,520	31,620	NA	NA

NA : Not Available. * Preliminary.

(Source : Foreign Agriculture Circular of USDA — January, April and July 1972).

PRODUCTION & CONSUMPTION

Production and Internal Consumption of Coffee in India — 1969-70 to 1971-72.

Season	National Production (in tonnes)			Calendar Year	Internal Consumption (in tonnes)		
	Ar.	Rob.	Total		Ar.	Rob.	Total
1969–70 ..	37,769	25,850	63,619	1969	19,421	19,631	39,052
1970–71 ..	58,400	51,900	110,300	1970	17,742	15,840	33,582
1971–72 ..	43,750	25,250	69,000	1971	20,387	17,517	37,904

Note : Ar. : Arabica. Rob. : Robusta.

State-wise Production of Coffee in India : 1969-70 to 1971-72 in Tonnes.

Season	Mysore			Tamil Nadu			Kerala			All India Total†		
	Arabica	Robusta	Total	Arabica	Robusta	Total	Arabica	Robusta	Total	Arabica	Robusta	Total
1968-69 ..	42,291	12,820	55,111	5,845	1,539	7,384	1,165	9,406	10,571	49,621	23,809	73,430
1969–70 ..	30,217	15,188	45,405	6,483	1,257	7,740	792	9,329	10,121	37,769	25,850	63,619
1970–71* ..	51,830	31,575	83,405	5,065	1,905	6,970	1,255	18,420	19,675	58,400	51,900	110,300
1971–72* ..	36,150	15,145	51,295	6,420	1,280	7,700	1,095	8,825	9,920	43,750	25,250	69,000

* Subject to revision. † includes production in other Indian States not shown separately.

Per Capita Consumption (in kg.): 1969 : 0·0733 ; 1970 : 0·0615 ; 1971 : 0·0677.

EXPORTS

Indian coffee is exported to many countries such as U.S.A., Canada, West Germany, Belgium, Netherlands, France, United Kingdom, Sweden, Norway, East Germany, Yugoslavia, USSR, Poland and Hungary. It is known for its quality and is used in other countries for blending with the coffee of other origins.

Until recently, more than 96 per cent of export was in the shape of raw coffee. Roasted, ground and coffee extracts made up only 2 per cent. The export of coffee extracts like soluble coffee and instant coffee has been increasing lately.

Exports of coffee from India for the fiscal years 1969-70 to 1971-72 based on the data of the Director-General of Commercial Intelligence and Statistics, Calcutta, is given in the table below :

Fiscal Year	Quantity of Coffee Exported (In Tonnes)	Value Realised (In Rs.)
1969–70	32,383	196,154,932
1970–71	32,189	251,050,172
1971–72	35,695	220,718,325

The International Coffee Organisation approved a redistribution of quarterly export quotas for nine producers of mild Arabica coffee and two Robusta producers in November 1971.

India is a member of International Coffee Organisation. India's quota under this agreement for the year 1971-72 was 24,012 tonnes and the coffee year 1972-73 for the first quarter (October-December 1972) the quota has been fixed at 6,650 tonnes.

Export Targets : The export targets fixed by the Board during the Fourth Plan are as follows :

Fiscal Year	Export targets (In Tonnes)
1971–72	38,700*
1972–73	40,900
1973–74	42,900

* As the production of coffee in 1971–72 was a record 1,10,000 tonnes the target fixed for export in 1971–72 has been achieved. In fact the actual quantity sold for export out of 1971–72 crop was 47,655 tonnes.

Export Duty : An export duty of Rs. 25 per 50 kgs. is levied on exports of coffee from India. The customs cess on export coffee is Rs. 3·75 per 50 kgs.

Export Promotion Council : Coffee Board situated Vidhana Veedhi, Bangalore 560001, is in charge of promoting exports.

IMPORTS

Value of the machinery etc., recommended for import by the Coffee Board to the coffee planters, curing works, dealers and others during the period of 5 years from 1966-67 to 1970-71 is about Rs. 5 million.

GENERAL

The powder of **chicory** roots is blended with coffee to enhance its taste. India produces about 6,000 to 7,000 tonnes of chicory roots per year which yields about 4,000 to 4,500 tonnes of chicory powder.

Cultivation of chicory is concentrated in Coimbatore and Nilgiri districts of Tamil Nadu, Jamnagar in Gujarat and Munnar and Vattavada in Kerala. In India the consumption of chicory is around 600 to 700 tonnes per annum.

India has been able to make considerable progress because of the **Coffee Board**, a statutory body under the Ministry of Foreign Trade. The functions of the Coffee Board are: the marketing of coffee through a common pool, promoting the sale and consumption of coffee in India and abroad, promoting agricultural and technological research, giving assistance to coffee growers for development of their estates and providing welfare measures for workers in the coffee plantations.

Training and Research : Facilities both for research in coffee culture and farm supervision and management training are available at the two research stations administered by the Coffee Board research department. The main research station located at Balehonnur, Chikmagalur district, Mysore State has been conducting laboratory research and field investigations on the three main aspects of crop improvement *viz.*, plant-breeding, plant-protection and plant-nutrition. The sub-station at Chethalli, Coorg district, Mysore State is run on a commercial basis for the purpose of large-scale demonstration in economic farm management and is also equipped with requisite staff and facilities for practical training in farm management and field-extension. A soil testing unit is also located in Mysore city.

The main research station maintains a close liaison with institutions all over the world and has been recognised as a centre for advance studies in coffee research.

New Plantation : A coffee plantation on 810 hectares in Paderu forest area of Andhra Pradesh was inaugurated in August 1972 with a view to rehabilitate 600 families of repatriates from Sri Lanka (Ceylon). The Central Ministry of Rehabilitation has given a loan of Rs. 8·1 million to the Andhra Pradesh Forest Department to implement this scheme.

FOURTH-FIVE YEAR PLAN

The area under coffee cultivation in India at the end of the Third Plan period (1965-66) was about 129,905 hectares. On the basis of present rate of annual increase and other factors, the total area is expected to reach 144,675 hectares and an annual average production of 100,000 tonnes by the end of the Fourth Plan period (1973-74).

COFFEE GLUT

Actual receipts of 1971-72 crop upto September 30, 1972	67,946 tonnes
Add carry forward from 1970-71	29,389 tonnes
Total	97,335 tonnes
Deduct estimated internal consumption during the calendar year 1972	39,000 tonnes
Export to ICO Quota, Non-quota & direct sales (estimated) during 1972	42,000 tonnes
Total	81,000 tonnes
Balance (estimated to be carried over to to 1973)	16,335 tonnes

Publication : (1) 'Indian Coffee', a monthly brought out by the Coffee Board. (2) 'Journal of Coffee Research', a quarterly dealing with technical papers is published by the research department of the Coffee Board.

COIR INDUSTRY

COIR is the natural versatile golden fibre extracted from the husk, the outer covering of the coconut. 'Cocos Fibre' popularly known as coir is classed among the industrial hard fibres which cater to the world market in the form of fibre, spun yarn, floor coverings, curled coir, rubberised coir products and rope.

BRIEF HISTORY

The word 'coir' has an historical background. The fact that it is derived from the Malayalam word 'kayar' meaning cord, shows that this material first became known as a product of the Malabar coast. As early as the 11th Century A.D. Arab writers have mentioned coir and referred to the uses of this material as ship's cables and rigging. During the 13th century, the great traveller Marco Polo mentioned the method of using coir yarn in the building of ships in the Persian Gulf, which is identical to that prevailing on the west coast of India at the present time.

It was not in India, as one would have thought, but in England that coir was first put to practical use. About 125 years ago three partners of a London carpet firm registered their patents for the manufacture of coir fibre into various fabrics suitable for floor coverings.

The development of the coir industry in India began in 1859 when a simple method of coir spinning and weaving on the coast of Malabar was introduced by an enterprising American of Irish origin. Many others soon followed with the increased demand for coir goods in England and on the Continent. Ever since these humble beginnings, coir products have been improving in quality, quantity and variety.

LOCATION OF THE INDUSTRY

The coir industry is mainly confined to the coastal strip of Kerala. However, in recent years, other coconut producing States have also made a start in this profitable industry.

Statewise location of the industry is as follows:

Kerala :	
Husk Retters	23,500 units
Spindle Spinning	24,000 ,,
Hand Spinning	85,000 ,,
Products Mfg.	1,960 ,,
Powerloom Matting	3 ,,
Rope Making	550 ,,
Defibering	6 ,,
Rubberised Coir	3 ,,
Mysore :	
Fibre Extraction	35 ,,
Tamil Nadu :	
Rope Making	926 ,,

Tamil Nadu :	
Yarn Spinning	710 units
Fibre Extraction	4 ,,
Rubberised Coir	1 ,,
Andhra Pradesh :	
Fibre Extraction	3 ,,
Production Centres	6 ,,
Maharashtra :	
Departmental Coir Factory	1 ,,
Fibre Extraction	1 ,,
Production Centres	8 ,,
Orissa :	
Production Centres	5 ,,
West Bengal :	
Fibre Extraction	3 ,,
Rubberised Coir/Curling	1 ,,
Coir Rope-Making	12 ,,
Gujarat :	
Production Centres	2 ,,
Goa, Daman & Diu :	
Production Units	685 ,,
Defibering Units	3 ,,
Laccadive, Minicoy and Amindivi Islands* :	
Defibering Units (*Exclude hand spinning units)	1* ,,
Pondicherry :	
Production Units	2 ,,
Andaman & Nicobar :	
Production Centre	1 ,,

Public Sector : Hindustan Coir Ltd. at Kalavoor near Alleppey in Kerala is the only factory in the public sector. It is run by the Coir Board, and primarily produces coir floor coverings.

No. of Persons Employed: There are about 500,000 persons employed in this industry which is mainly a cottage industry.

Ranking in the World Market: The total volume of coir entering the world trade either as raw fibre or in the form of spun yarn and manufactured products is about 175,000 tonnes. Raw fibre alone accounts for 95,000 tonnes of this while processed coir goods account for only 80,000 tonnes. India's share in world trade of coir and coir goods are as follows: coir yarn 99 per cent, coir manufactures 75 per cent, coir cordages and ropes 95 per cent.

PRODUCTION AND CONSUMPTION

The world production of coir is concentrated very largely on the western coastal areas of India and Ceylon. These are the only two countries in which widespread commercial production is undertaken even though coconuts are grown in abundance elsewhere. India accounts for about 56 per cent of the total production of the coir in the world.

Estimated annual output of coir in principal producing countries is as follows:

WORLD PRODUCTION OF COIR

Country	*Thousand tonnes*
India	160·0
Sri Lanka	100·0
Tanzania	8·5
Bangladesh	5·8
Thailand	3·0
Philippines	2·5
Burma	2·1
Kenya	2·0
Seychelles	1·9
Malaysia	1·5
Mozambique	1·0
Others	0·5
Total	288·8

The annual production of coir in India is estimated at 160,000 tonnes, of this total 95 per cent is produced in Kerala State and the remaining portion comes chiefly from the States of Tamil Nadu and Mysore.

The All-India estimated annual production and consumption of coir and coir products is as follows :

Commodity	*Estimated annual Production*		*Estimated annual consumption*
	Qty. (tonnes)	Value (Rs. mill.)	Qty. (tonnes)
1. Coir fibre	160,000	274·9	(—)
2. Coir yarn	138,000	316·3	65,358
3. Coir products : (Coir mats, mattings, rugs, & Carpets etc.)	28,000	100 0	7,400
4. Coir rope	20,000	32·9	19,762
5. Curled Coir	1,600	2·0	542
6. Rubberised products	1,276	11·1	1,176

N.B. : Coir yarn and other products are manufactured from coir fibre and yarn respectively and hence the above figures should not be added up.

In order to expand the home market for coir and coir products, the Coir Board has opened show rooms and sales depots in important cities like Bombay, Calcutta, New Delhi, Madras, Bangalore and Ernakulam. The Board has also appointed 33 accredited dealers throughout the country.

EXPORTS

Coir export from India is directed to more than 90 countries in the world. The following table indicates the quantity and the foreign exchange (in rupees) earned through these exports during the last three years.

Q = Quantity in tonnes. **EXPORT OF COIR AND COIR PRODUCTS** V = Value in Rs. million

Sl. No.	Commodity	1969-70		1970-71		1971-72	
		Q.	V.	Q.	V.	Q.	V.
1.	Coir Fibre	326	0·53	437	0·75	392	0·63
2.	Coir Yarn	37,738	81·91	33,440	76·63	30,642	72·24
3.	Coir Mats	13,480	43·26	12,258	41·15	13,498	50·75
4.	Coir Mattings, Rugs & Carpets	—2,918	—9·52	—5,550	—19·40	—7,101	—24·04
5.	Coir Rope	354	0·53	264	0·43	238	0·38
6.	Curled Coir	663	0·90	266	0·33	441	0·55
7.	Rubberised Coir Goods	8	0·06	3	0·02	—	—
	TOTAL :	55,487	136·71	52,218	138·71	52,412	148·59

Source : Daily/Weekly lists of exports issued by the Customs Authorities.

The exports of coir and coir products during April-July 1972 were 11,702 tonnes valued at Rs. 34·64 million.

TARGET OF EXPORTS FOR COIR AND COIR PRODUCTS (Revised)

Q = Quantity in tonnes. V = Value in Rs. million

S. No.	Commodity	1972-73 Q.	1972-73 V.	1973-74 Q.	1973-74 V.
1.	Coir Fibre	370	0·60	390	0·70
2.	Coir Yarn	30,000	75·80	30,000	79·60
3.	Coir Mats	13,500	49·00	14,000	52·90
4.	Coir Matting, Rugs and Carpets	5,500	20·80	5,000	21·60
5.	Coir Rope	300	0·50	300	0·50
6.	Curled Coir	600	0·80	700	0·90
7.	Rubberised Coir Goods	7	0·06	10	0·08
	Total	50,277	147·56	50,900	156·28

Export Duty : Coir yarn exports are subjected to an export duty of 15 per cent.

The Coir Industry Act gives powers to the Union Government to levy a cess on export of coir and coir products. At present the cess levied on coir fibre and yarn is at the rate of 98 paise per quintal. Nearly Rs. 646,000 were collected under this head in 1970-71.

To achieve some sort of stability in price index, floor prices have been fixed for the popular varieties of coir mats and coir yarn exported.

There is a scheme of quality control and pre-shipment inspection to prevent the shipment of inferior goods.

GENERAL

Coir Board (Address: Post Box No. 1752, Ernakulam South, Cochin-682016) having representatives from the industry and Government officials, was established in the year 1953. The function of the Board has been to promote the development of coir industry, to help manufacturers in exporting their finished goods and to carry on propaganda for that purpose and also to assist technological research.

Gross National Product: At the time Coir Board was set up the estimated G.N.P. from coir and coir goods was Rs. 128 million. During 1971-72, the G.N.P. from Coir was estimated at Rs. 325 million, recording an increase of over 150 per cent.

Training and Research facilities : A Central Coir Research Institute was set up in Kalavoor, Alleppey in Kerala to carry on fundamental as well as applied research.

The Board also set up a **National Coir Training and Design Centre** at Alleppey to impart advanced and systematic training in the techniques of coir production. An extension service covering the various aspects of coir extraction, processing and manufacture especially spinning, dyeing and weaving was also started.

In order to compete with the products manufactured on powerlooms in West European countries, a fully mechanised factory, set up by the Coir Board, has been commissioned for production. The total financial outlay is about Rs. 1·2 million with a foreign exchange component of about Rs. 460,000. Two other factories in the private sector have also commenced commercial production.

Rubberised coir producing units have been commissioned in various parts of the country. Rubberised coir is extensively used in the manufacture of mattresses, pillows, moulded cushions, upholstery parts, etc.

Ten Largest Units : 1. William Goodacre & Sons (I) Ltd., Alleppey ; 2. Alleppey Company Ltd., Alleppey ; 3. Darragh Smail & Co. (I) Ltd., Alleppey ; 4. Aspinwall & Co. (Travancore) Ltd., Alleppey ; 5. Brothers Coir Mills, Alleppey; 6. K. Raghavan Coir Factory, Alleppey; 7. Shertallai Coir Mats & Matting Co-operative Society Ltd., Shertallai ; 8. Charankatty Coir Mfg. Co. (P) Ltd., Shertallai ; 9. Pooppally Coir Mills, Alleppey ; 10. Travancore Mats & Matting Co., Alleppey.

Raw Material : The fibrous husk — the outer covering of the coconut is the primary raw material for the coir industry, and as such, the availability of raw material depends on the production of coconuts. World area under coconut cultivation has been estimated at 6,572 thousand hectares and the annual world production of coconuts is reckoned as 27,379·4 million nuts. Philippines is the largest producer of coconuts in the world. India stands third in the list, second being Indonesia.

India produces 5,779 million nuts annually on 1,022 thousand hectares that are under coconut cultivation.

27,379·4 million husks were available for industry in the world in 1969-70. In most of the coconut producing countries, coconut is produced mainly for copra, the husks being either buried as fertilizer or discarded. In India itself, it is estimated that out of 5,779 million husks available only 40 to 50 per cent is utilised by the industry and the rest is wasted.

As per the recommendations of the Board, the Central Government has issued orders notifying coconut husks (raw and retted) as an essential commodity under the Essential Commodity Act of 1955. In exercise of the powers conferred under section 3 of the Essential Commodity Act, 1955 (10 of 1955) the Central Government has issued orders for the licensing of coir retting places. These rules provide powers to the Government for the control of the price of husks. The State Governments of Kerala and Tamil Nadu were authorised to implement the scheme. Government of Kerala accordingly started the scheme of licensing of retting places with effect from December 1, 1969. Maximum ex-retted prices for retted husks have also been fixed by the Government.

FOURTH FIVE YEAR PLAN

A total outlay of Rs. 50·3 million is envisaged in the Fourth Plan for the development of the coir industry, Rs 15·0 million for Central Schemes and Rs. 35·3 million for State and Union Territory Schemes. The Central Schemes to be implemented by the Coir Board are aimed at :

(1) Diversification of production and product development including research and mechanisation.

(2) Export promotion by stepping up publicity, negotiating with importing countries for removal of tariff non-tariff barriers, maintaining quality and stabilisation of prices and,

(3) Providing a stable domestic market for coir and coir goods.

(4) Ensuring remunerative returns to different sectors in this industry by providing training facilities, working capital loans, machinery etc.
(5) Market surveys.
(6) Economic and statistical research.

Publication : "Coir Quarterly", "Monthly Bulletin of exports of coir and coir products" and Annual Brochure "India's Production, Exports and Internal Consumption of Coir and Coir Goods", all three brought out by the Coir Board.

COTTON AND COTTON TEXTILE INDUSTRY

COTTON

Brief History : India is the accredited home of the cotton plant. There is evidence to show that cotton used to be grown in India as early as 4000 years B.C. Alongside the production of cotton there was a thriving cotton textile industry which not only supplied cloth for internal consumption but produced export varieties of cloth that became the envy of the world. The writings of Marco Polo in the 13th century A.D. and of Tavernier in the 17th century stand testimony to the degree of excellence and perfection achieved by the textile industry in India.

Originally, all cotton cultivated in India grew on the perennial type of plant known as G. Arborium Var Neglectum, which was of Forma Bengalenses in north and western India and of Forma Indicum in central and south India. It is believed that the 'webs of the woven wind'—the world famous Dacca muslin was made from Forma Bengalenses.

Until about the middle of the 18th century Indian textiles reigned supreme in foreign markets. But during the Industrial Revolution in the West, Indian cloth began to lose its oversea's market. Realising the significance of the revolution the East India Company changed its role of an exporter of cloth to an exporter of cotton and encouraged a wider cultivation of cotton in India. Thus began the cultivation of cotton as a commercial crop.

AREA UNDER CULTIVATION

India has the largest area in the world under cotton cultivation, which is more than one fourths of the total world acreage.

The area ('000 hectares) under cotton cultivation during last three years was: 1969-70 : 7,712·3 ; 1970-71 : 7,605·1 ; 1971-72 : 7,783·6.

(Refer to the Chapter on 'Agriculture' for the Statewise break-up of the area during 1971-72).

PRODUCTION

Among the Indian States, Gujarat normally accounts for more than one fourth of the country's production of cotton, closely followed by Maharashtra. These two States together produce over half the country's cotton.

The production ('000 bales of 180 kgs. each) of cotton during last three years was : 1969-70 : 5,233·1 ; 1970-71 : 4,498·8 ; 1971-72 : 6,526·4.

(Refer to the chapter on 'Agriculture' for the Statewise break-up of production in 1971-72).

EXPORTS OF COTTON

Year	'000 bales of 180 kgs. each	Value Rs. million
1969–70	207	151·12
1970–71	189	167·81
1971–72	233	216·72

IMPORTS

Since the home production of cotton has not met the rising demand, imports have become a necessity which forms roughly 10 per cent of the total consumption as seen in the table below :

Year*	Imports '000 bales†	Value Rs. million	Consumption '000 bales†		
			Indian	Foreign	Total
1969–70 ..	910	1,124·78	5,657	714	6,371
1970–71 ..	859	1,098·54	5,073	846	5,919
1971–72 (P)	746	1,017·36	5,592	767	6,359

* Cotton year ending August 31st. (P) Provisional.
† Bales of 180 kgs. each.

GENERAL

Yield Per Hectare : Inspite of India having the largest area under cotton cultivation, the production accounts for less than one tenth of the world cotton output. Indian production has been on an average one bale (180 kgs.) per hectare, against 4 bales produced in Egypt.

COTTON YIELD IN SELECTED COUNTRIES

(kgs. per hectare)

Country	Average yield (1968–69 to 1970–71)
U.S.A.	519
U.S.S.R.	808
Brazil	237
Mexico	745
U.A.R.	749
Peru	576
China	300
Sudan	463
Syria	550
Pakistan	304
India	137
World Average (including others)	351

India is, however, on the verge of a major breakthrough in cotton cultivation with the development of a new strain by crossing the imported type American Nectariless with the indigenous Gujarat-67.

The new variety, Hybrid-4 is credited with a record yield of 8,700 kgs. of kapas per hectare in Bellary district of Mysore. The average yield from this strain is placed at 3,500 to 4,000 kgs. per hectare, while the average yield per hectare of other varieties is 925 kgs. of kapas in irrigated areas and 250 kgs. in non-irrigated areas.

Cotton Corporation of India Ltd. : Refer to the Chapter on 'All India Corporations'.

Research : Established in 1924 the **Cotton Technological Research Laboratory** at Adenwala Road, Matunga, Bombay-400019, offers facilities for fibre testing and spinning quality evolution of cotton with the result that a large number of improved varieties have been evolved and extended for commercial cultivation.

The laboratory also offers training in cotton technology to sponsored candidates from the textile industry.

Regional Cotton Research Station at Coimbatore, Tamil Nadu of the Indian Agricultural Research Institute does research on the plant breeding aspect of cotton.

Besides this laboratory numerous other agricultural universities conduct research on cotton.

Development Programme : The Centre has approved a three-year programme, costing Rs. 147·4 million to end the country's long dependence on import of cotton.

The plan will bring a return of an aggregate value of Rs. 1,560 million between 1971 and 1974. The increased yield is expected to be about 360,000 bales in 1971-72, 420,000 bales in 1972-73, and 480,000 bales in 1973-74.

The main objective of the new plan is to end the present stagnation in cotton production by adopting promotional measures, suited to both irrigated and rain-fed areas, and make the country self-sufficient in cotton.

The three-year programme would popularise the use of pure seed and new varieties, application of recommended doses of fertilisers, and adoption of plant protection measures.

Under the programme, six districts have been selected in the irrigated zone: Ferozepore and Bhatinda in the Punjab, Hissar in Haryana, Sriganganagar in Rajasthan, Baroda in Gujarat and Coimbatore in Tamil Nadu. In the current year, it is proposed to cover a total of 400,000 hectares of cotton cultivated areas in these districts.

During 1972-73, an additional area of 80,000 hectares will be covered, followed by another 80,000 hectares in 1973-74. This includes 100,000 hectares of cotton growing areas in Baroda district of Gujarat. Another 60,000 hectares will be covered in 1971-72, and additional 20,000 hectares each in the subsequent two years.

Demonstrations of farm holdings in these areas show that cotton production can be stepped up by 40 to 100 per cent.

In non-irrigated areas, it is proposed to initiate a programme on a pilot basis in approximately 140,000 hectares spread over seven districts in different States. These are Kurnool in Andhra Pradesh, Surendranagar in Gujarat, Khargone in Madhya Pradesh, Akola and Yeotmal in Maharashtra, Dharwar in Mysore and Tirunelveli in Tamil Nadu.

In each selected district, 2,000 hectares will be covered under the "intensive programme" and another 18,000 hectares under the "expanded programme". The programme recommends reimbursement of cost of inputs up to a prescribed limit per hectare.

* * *

COTTON TEXTILE INDUSTRY

Brief History : The cotton textile industry was the first of Indian modern industries: the base on which the pyramid of Indian industrialisation was built up a trainng ground for Indian entrepreneurs and managerial personnel, who later promoted a large number of other industries.

More than a century old the industry was started largely as a spinning enterprise and gradually developed into a full-fledged composite one. The first power-mill was set up in Bombay by a Parsi pioneer, Mr. Kavasji Nanabhai Davar, in 1854. From then on the industry has held a vital place in the Indian economy.

No. of Persons Employed : It provides direct employment to about 900,000 (20 per cent of all factory labour totalling 4·6 million). Indirect employment runs into several millions.

Capital Investment : Estimated at Rs. 2,700 million and the annual value of the output amounts to Rs. 12,000 million.

Ranking in the World : India occupies second position in terms of spindles (after the U.S.A.), third as exporter of cotton textiles (after Japan and Hongkong), fourth in terms of cotton consumption (after China, U.S.A. and Russia.)

LOCATION OF THE INDUSTRY

State-wise break-up of Mills as on 1st October, 1971.

State/zone	Number of Mills	Installed Spindles (in '000)	Installed Looms
Andhra Pradesh ..	33	533·43	1,246
Assam	2	23·48	—
Bihar	5	51·36	219
Gujarat	118	3,728·61	63,077
Ahmedabad ..	*70*	*(2,549·09)*	*(46,839)*
Haryana	10	216·18	978
Jammu & Kashmir	1	12·60	—
Kerala	27	423·92	1,118
Madhya Pradesh	23	689·25	12,976
Tamil Nadu ..	208	4,227·48	9,228
Maharashtra ..	108	4,768·48	77,655
Bombay	*59*	*(3,542·79)*	*(62,681)*
Mysore	29	710·07	5,894
Orissa	5	110·53	866
Punjab	8	163·31	1,301
Rajasthan.. ..	20	368·45	3,104
Uttar Pradesh ..	36	1,044·79	13,430
Kanpur	*14*	*(528·83)*	*(11,272)*
West Bengal ..	42	942·89	9,974
Delhi	4	177·28	3,525
Pondicherry ..	5	127·85	2,681
Goa	1	25·04	—
Total ..	685	18,345·00	207,272

Following table shows the break-up according to ownership and present status. The remaining are all privately owned.

	Number of Mills	Installed Spindles (Million)	Installed Looms (Thousand)
Government Run Mills	103	2·93	46
Co-operative Mills	44	0·75	—
Closed Mills ..	34	0·52	4

PRODUCTION

The actual production of yarn and cloth by the mill sector is as follows :—

Year	Yarn in '000 kg.	Cloth in '000 metres					
		Coarse	Medium B	Medium A	Fine	Superfine	Total
1969	951,066	608,214	1,214,329	1,845,204	176,584	324,059	4,168,390
1970	964,756	578,941	1,108,075	1,865,825	219,172	385,081	4,157,094
1971	882,000	503,000	1,038,000	1,753,000	247,000	416,000	3,957,000
1972 (Provisional) ..	873,000	—	—	—	—	—	4,228,000

EXPORTS

Exports of mill-made Cotton Textiles—Fiscal year Basis

		Cotton Fabrics		Cotton Yarn		Cotton Apparel	Cotton Hosiery	Other cotton manufactures	Total
		Quantity (Million square metres)	Value (Million Rs.)	Quantity (Million kgs.)	Value (Million Rs.)	Value (Million Rs.)	Value (Million Rs.)	Value (Million Rs.)	Value (Million Rs.)
1968-69	..	451·60	660·87	19·51	128·59	33·02	2·25	150·46	975·19
1969-70	..	415·50	631·11	38·64	291·16	54·88	2·84	135·34	1,115·33
1970-71	..	419·10	681·26	22·94	205·89	86·14	2·33	178·64	154·26
1971–72*	..	390·36	684·96	13·61	147·23	129·32	4·18	175·60	1,141·29

* Estimated.

Cotton Textile Export Promotion Council: (Address: Engineering Centre, Mathew Road, Bombay-400004). It is an autonomous body and a non-profit making organisation and was set up in 1954 for the promotion of exports of mill-made cotton yarn and piece-goods, cotton manufactures and all hosiery and readymade garments.

GENERAL

The textile industry is composed of three distinct groups in the organised sector. These are (*i*) spinning mills, (*ii*) coarse and medium composite mills and (*iii*) fine and superfine composite mills.

The spinning mills are generally small in size and their domestic market is confined to powerlooms, handlooms and hosiery industry. Of late, they have contributed encouragingly towards exports. Raw materials constitute 75-80 per cent of their cost of production. They have now also begun using synthetic fibres.

The coarse and medium mills produce cloth mainly in controlled categories and for export. They consume Indian cotton, the prices of which have fluctuated widely in the last few years. Further they are subject to strict stock limitation of raw materials enforced by the Textile Commissioner. It is these coarse and medium mills which immediately suffer the impact of uneconomic working conditions and run into difficulties and ultimately into huge losses.

The fine and superfine mills consume mainly foreign cotton, the price of which is relatively stable. Foreign cotton is generally subject to no stock restriction. The mills are therefore able to run stable production programmes for an essentially domestic market.

Readymade Garments: Exports worth Rs. 90 million in 1960–70 rose to Rs. 202·50 million in 1971–72.

National Textile Corporation Ltd. (details in the Chapter on All India Corporations) A public sector undertaking, it was set up in 1968 to take over and run 'sick' textile mills in the country. Similar corporations are also set up in the State sector of Gujarat, Kerala, Maharashtra, Madhya Pradesh, Tamil Nadu and Uttar Pradesh.

Indian Cotton Mills' Federation: (ICMF): (Address: 10 Veer Nariman Road, Bombay-400001) Established in March 1958, it is the apex body representing the cotton mill industry of India. The object of ICMF is to watch over, protect and promote the interests of the industry.

Research: Extensive research on cotton textiles is carried out by the following organisations: (1) Ahmedabad Textile Industry's Research Association (ATIRA), P.O. Polytechnic, Ahmedabad-380015, Gujarat. It also has several regional research stations in Gujarat doing research on cotton. (2) Bombay Textile Research Association, Ghatkopar, Bombay-400077. (3) Shri Ram Institute for Industrial Research, 19, University Road, New Delhi-110007. (4) South India Textile Research Association, Coimbatore-641014, Tamil Nadu. (5) Textile and Allied Industries Research Organisation, Kala Bhavan, Baroda-390001, Gujarat.

Publications: (1) *Texprocil Bulletin* (fortnightly), brought out by the Cotton Textile Export Promotion Council (2) *Indian Cotton Mills' Federation Journal* (monthly), 10, Veer Nariman Road, Bombay-400001 (3) *Indian Textile Bulletin* brought out by the office of the Textile Commissioner.

JUTE INDUSTRY

BRIEF HISTORY

THE Indian jute mill industry, born in 1855 at Rishra on the Hooghly, 21 kms. upstream from Calcutta, was a natural evolution of the centuries old cottage industry of Lower Bengal based on hand spinning and weaving of jute. The banks of the Hooghly offered the best facilities in the world for manufacture of jute. By 1885 the Indian industry, with its supremacy in the international markets firmly established, had 6,700 looms in production. Loomage shot up to 30,685 in 1909, to 50,354 in 1927 and to 65,762 in 1949. For a decade or so the industry produced the simplest constructions of sacking cloth. A new line of production—hessian—was introduced in 1970, and the product diversification continued with webbings, cotton bagging, linoleum hessian, jute carpets and rugs, carpet backing cloth, and decorative jute fabrics gradually added to the range. The industry has already modernised up to the spinning stages of manufacture. This, coupled with the improved technology and other rationalisation measures adopted by the industry, has helped it to increase production without increasing loomage. Since 1967 the mills have been producing goods rigidly to ISI standards under the Government's compulsory quality control and preshipment inspection scheme. The industry has been engaged since World War II in research and product development for an answer to the problem of substitution.

LOCATION OF THE INDUSTRY

Figures given are those of mills in operation on July 31, 1972. Within brackets are the number of factories that had closed down during the last one year. West Bengal 54; Andhra Pradesh 5; Bihar 3; Madhya Pradesh 1; Uttar Pradesh 3; Assam 1; All India 66 (8).

Area in hectares under raw jute cultivation: 1969–70: 769,712·77; 1970–71: 749, 883·16; 1971–72: 818,600·00.

The concentration of raw jute cultivation is largely in Assam (142,600 hectares), Bihar (131,100 hectares), and West Bengal (461,100 hectares). (For production refer to the Agriculture chapter.)

Public sector : Negligible (only a small mill in Assam has recently gone into production).

No. of Persons Employed : approximately — 250,000.

No. of Strikes & Lockouts : (1971) — 184.

No. of Mandays Lost : (1971) — 1·16 million.

Capital Investment in the Industry : about Rs. 2,400 million.

Average Annual Sales : about Rs. 3,000 million.

Ranking in the World Market : Indian jute industry is the biggest in the world and accounts for about 30 per cent of world production and about 45 per cent of world export of jute goods.

PRODUCTION

Following is the production of raw jute for mills reporting to the Indian Jute Manufacturers Association accounting for about 90 per cent of total industry (in '000 tonnes).

1969–70: 969; 1970–71: 979; 1971–72: 1,138.

The all-India yield per hectare in bales (1 bale = 181·43 kgs.): 1968–69: 5·60; 1969–70: 7·44; 1970–71: 6·62; 1971–72: 6·97.

CONSUMPTION

Per Capita Consumption of Jute Goods : (in kg)*: India 0·72, U.K. 2·74, USA 2·83, Japan 1·30, Australia 7·24, USSR 0·36.

Distribution (Million bales)

	1969–70	1970–71	1971–72
Mill consumption ..	6·20	6·35	7·45
Exports..	0·20	0·10	0·35
Domestic consumption	0·20	0·20	0·20
Total	6·60	6·65	8·00

EXPORTS

Jute is the country's largest foreign exchange earner. The table below gives the exports of jute and the foreign exchange earned in the last three years.

Year (April–March)	Exports ('000 tonnes)	Value (Rs. in million)
1969–70	556	2,092·9
1970–71	559	1,903·4
1971–72 (Prov.)	682	2,656·0

Export Targets : According to the draft Fourth Plan an annual growth rate of 2·8 per cent (in terms of value) for jute goods exports has been laid down as target.

Export Duties : Hessian Rs. 600 per tonne; canvas, tarpaulin and webbing Rs. 200 per tonne; carpet backing Rs. 700 per tonne; cotton bagging, wool sack and specialities Nil; sacking, twist, yarn, rope, twine and other goods Rs. 150 per tonne.

GENERAL

Yield per hectare : The average fibre yield of jute in India is about 1,300 kgs. per hectare.

Loomage: World jute loomage is put at 109,275 out of which India with 43,045 looms and Bangladesh with 25,160 looms, account for 62·4 per cent. The remaining 41,070 looms (37·6 per cent) are distributed between 53 other countries of the world.

Directorate of Jute Development : MS Building, Nizam Palace Campus, 234/4, Acharya J.B. Road, Calcutta-700020.

Training : The industry has provided for elaborate and scientific technical training in the spinning and weaving of jute, quality control of jute goods, and maintenance of machinery at the **Institute of Jute Technology** at 35, Ballygunge Circular Road, Calcutta 700009, an educational centre set up and financed by the Indian Jute Mills Association within the orbit of Calcutta University. Successful trainees eventually fill the senior supervisory positions in jute mills.

Research : The industry's needs for research and development are served by the **Indian Jute Industries' Research Association** (*IJIRA*), 17, Taratola Road, Calcutta 700053, who take care of (1) Basic research, (2) Applied investigations, (3) Technical service, (4) Product development, and (5) Raw jute development.

Jute Agricultural Research Institute : Nilganj, Barrackpore, West Bengal, deals with the problems of cultivation of jute and allied fibres.

Ten Largest Mills : (on the basis of loomage) along with the total number of installed looms, which are all, situated in West Bengal.

	Names of Mills	*Address*	*No. of Looms*
1.	New Central Jute Mills Co. Ltd.	Budge Budge, 24 Parganas	1,551
2.	National Co. Ltd.	Sankrail, Howrah	1,465
3.	Ganges Manufacturing Co. Ltd.	Bansberia, Hooghly	1,316
4.	Hukumchand Jute Mills Ltd.	Hazinagar, 24 Parganas	1,251
5.	Fort Gloster Industries Ltd.	Bowreah, Howrah	1,247
6.	Anglo India Jute Mills Co. Ltd.	Kanknarrah, 24 Parganas	1,209
7.	Shree Hanuman Jute Mills.	Ghusuri, Howrah	1,160
8.	Titaghur Jute Factory Co. Ltd.	Titaghur, 24, Parganas	1,085
9.	Shamnuggur Jute Factory Co. Ltd.	Bhadreswar, Hooghly	1,016
10.	Barnagore Jute Factory Co. Ltd.	Barnagore, Calcutta 700035	1,016

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* Based on internal cousumption for 1969 and population as published in The Statesman Year Book: 1967:68.

FOURTH FIVE YEAR PLAN

The Planning Commission has approved an incentive jute growing programme in six districts in four Eastern States, aimed at adding 840,000 bales to the country's jute production by 1973-74.

The two-year programme, which has been approved as a Centrally-sponsored scheme is estimated to cost Rs. 60 million and will be implemented from 1972-73.

The area proposed to be covered under the scheme is 300,000 hectares under improved package practices, and another 30,000 hectares under an extension programme.

An additional quantity of 380,000 bales of jute is likely to be produced during 1972-73 and the full potential of 840,000 bales of jute under the Scheme is expected to be realised in 1973-74. The aggregate value of this production is estimated to be Rs. 270 million.

Publications : 'Jute Bulletin', Indian Council of Agricultural Research, 4, Hastings Street, Calcutta 700001 (Monthly). 'Jute Chronicle', Indian Jute Mills Association, 6, Netaji Subhas Road, Calcutta 700001 (Bi-Monthly).

LAC INDUSTRY

LAC is a resinous substance secreted as a protective coating by the lac insect known in scientific terms as " kerria lacca ". It is a unique natural resin, being the only one of animal origin. The insect, about 0·5 mm. long, belonging to the family of scale insects and mealy-bugs, is a parasite which lives and thrives on the sap of certain trees, bushes, shrubs and creepers which are called the 'lac hosts'.

BRIEF HISTORY

The word *lac* or *lakh* is derived from the Sanskrit word *Laksha*, meaning a hundred thousand, believed to be the number of crimson-red insects which play their role in producing a seer of lac. In Vedic times lac was prized for its supposed medicinal properties. Classical Sanskrit literature is full of references to the use of the red lac dye for cosmetic purposes. By the time of Akbar the use of lac for preparing varnishes and lacquer for wood had been well developed. Wood turnery lacquering, ornamental enamelling of brassware, and the making of bangles out of lac have continued to the present day as handicrafts.

LOCATION OF THE INDUSTRY

The lac factories are located in the following five States with the number of units in brackets: Bihar (37), West Bengal (33), Madhya Pradesh (20), Maharashtra (7) and Uttar Pradesh (4). (Total 101 units.)

No. of Persons Employed: Bihar: 1,143, West Bengal : 2,332, Madhya Pradesh : 304, Maharashtra : 210, Uttar Pradesh : 83. (Total 4,072).

The lac industry provides side occupation and a valuable source of subsidiary income to the poor *adivasis* and backward people who employ themselves in its cultivation. The number of such cultivators is between 3 to 4 million.

PRODUCTION

The lac insect is found in most of the near and far eastern countries but is commercially exploited on a large-scale only by India and Thailand. India's share in world production of lac which was about 90 per cent before the Second World War has declined to about 50 per cent and Thailand now contributes more than one fourth of the total world supplies.

The all-India production of lac over the last three years in tonnes was as follows: 1969-70: 5,742; 1970-71: 24,560; 1971-72 : 27,211.

The final report issued by the Directorate of Lac Development, Ranchi, puts the total yield of 'Baisakhi' lac crop in 1971-72 at 18,400·8 tonnes, of 'Jethwi' lac at 370 tonnes, of 'Katki' lac at 7,200 tonnes and of 'Kusmi' lac at 1,241 tonnes.

Bihar has the highest production, 16,208 tonnes in 1971-72, followed by Madhya Pradesh 6,308 tonnes, West Bengal 2,148 tonnes and Uttar Pradesh 1,344 tonnes.

CONSUMPTION

India consumes only about 10 per cent of its annual production. The consumption in tonnes over the last three years was as follows: 1969-70 : 1,053; 1970-71 : 1,529; 1971-72 : 1,519.

EXPORTS

Very early in history, lac dye appears to have reached Greece and Rome. Regular exports to Europe began early in the 19th century for use as a substitute for the more expensive cochineal imported from Mexico. Exports were further accelerated when more uses were found for the resin, such as in the manufacture of phonograph records and French polish.

Indian lac being indisputably the best in quality is sold to over a hundred countries. Over 90 per cent of the total production is exported.

The largest buyers of Indian lac are U.S.A., U.S.S.R., and U.K.

The table below gives export of lac to important countries during the last three years.

(In tonnes)

Country	1969-70	1970-71	1971-72
U.S.A.	3,437·2	2,856·3	3,335·3
U.S.S.R.	2,928·9	1,221·1	765·0
West Germany	2,381·6	1,363·2	1,552·3
U.K.	2,224·3	2,135·4	2,213·7
Japan	418·5	143·0	105·1
Australia	371·2	517·3	305·6
France	338·2	303·6	207·6
Brazil	295·2	1,177·8	847·1
Italy	267·0	276·1	276·4
Other Countries	4,077·2	3,351·6	4,112·6
Total	16,739·3	13,346·4	13,720·7
Total value in Rupees	47,778,238	49,965,218	65,915,301

Export Target: The Fourth Plan target for lac export has been put at 20,000 tonnes of shellac/seedlac.

Shellac Export Promotion Council with headquarters at 14/1B, Ezra Street, Calcutta-700001, assists the exporters in their various problems and does propaganda abroad for the promotion of lac trade.

The major functions of the **Indian Lac Exporters Association,** (6, Netaji Subhas Road, Calcutta-700001) formed with Government support, are to assist the Government in the fixation of minimum prices of all grades, maintenance of quality and administration of the minimum export price.

IMPORTS

Imports of lac over the last three years are given below: (there were no imports in 1968-69.)

Year	Quantity in quintals	Value in Rupees
1969-70	17·0	16,703
1970-71	22·4	22,469
1971-72	85·5	159,781

GENERAL

For looking after the development and marketing of lac and also for guiding and co-ordinating lac development work in the States, a **Directorate of Lac Development** has been created under the Department of Agriculture of Government of India with headquarters at Circular Road, Ranchi, Bihar with effect from 1st April, 1966. The Government of India has also constituted the **Indian Lac Development Council** on which various interests connected with lac are represented. The primary function of the Council is to advise the Government on all matters relating to development of lac cultivation, trade and industry.

The **Bihar Co-operative Lac Marketing Federation** has been formed in Bihar with the object of giving a price support to the cultivator at the time when the market price falls below certain levels. Similar organisations in other States are in the offing.

Research: To improve upon the technique of lac cultivation and to find out new uses of lac are the responsibilities of the **Indian Lac Research Institute** at Namkum, Ranchi, Bihar. This Institute is under the control of the Indian Council of Agricultural Research and provides training facilities.

Important Uses: Lac is used in the manufacture of French polish, gramophone records, electrical insulating materials, shellac moulded articles, micanite, hats, grinding wheels, adhesives, cements, wood turning, metal enamelling, printing ink etc.

Crops: There are four crops of lac named after the Hindu months in which the collection of each crop commences. These are 'Baisakhi' and 'Katki' from one strain of the insect (Rangeeni) and 'Jethwi' and 'Aghani' from another strain (Kusmi). Each Rangeeni female produces 0·03 g. of somewhat dark lac, while each Kusmi female makes about 0·07 g. of a more valuable light-coloured lac.

When the matured crop is cut, a portion is kept apart to serve as broodlac for the next crop. The rest, scraped off from the twigs, is sticklac. The first processed product after the crushing and washing of sticklac is known as 'seedlac'. Shellac is manufactured either by melting seedlac mainly in cloth bags held near a fire or by the mechanised process of extraction with suitable solvents.

FOURTH FIVE YEAR PLAN

Keeping in view the fact that the world consumption of lac is around 30,000 tonnes of seedlac and shellac annually (which will be equivalent to over 60,000 tonnes of sticklac) and an export target of 20,000 tonnes of seedlac and shellac, a production target of 45,000 tonnes of sticklac has been fixed for 1973-74 the last year of the Fourth Plan.

For achieving this target the following two schemes have been incorporated:

Scheme No. I: 27 broodlac-cum-demonstration centres will be established in different States at a cost of Rs. 917,000. These farms will supply healthy and good quality broodlac at subsidised rates to poor cultivators. This scheme is under the State sector and only a few States have taken up the scheme with very much reduced investment.

Scheme No. II: Adoption of improved method of cultivation and production of superior quality lac in selected areas at a total cost of Rs. 875,000.

The second scheme is centrally sponsored. Extensive measures for improved method of cultivation will be undertaken in 48 blocks in 5 lac growing States.

Publication: 'Indian Shellac' (Quarterly), 14/1B, Ezra Street, Calcutta-700001.

OIL-SEEDS AND VANASPATI

THE following table gives the area in thousand hectares and yield in thousand tonnes of oil-seeds during the last 2 years:

Seed	1970–71	1971–72
Rape and Mustard		
Area	3,323·1	3,589·1
Production	1,975·3	1,450·6
Sesamum		
Area	2,433·2	2,408·1
Production	562·3	459·4
Linseed		
Area	1,896·8	1,944·2
Production	473·8	509·8
Castor		
Area	438·6	416·4
Production	136·1	143·8

GROUNDNUT

Groundnut, in terms of weight, is the world's third most important oil-seed, ranking after soyabean and cottonseed; because it has a relatively high oil content, it is the second most important source of edible oil, and provides about a fifth of all edible oil supplies. India has the largest area and production of groundnut, and the Indian crop significantly influences the trend of world production and supplies.

Groundnut accounts for 70 per cent of the total oilseed output in the country.

Area and production of groundnut in major producing States

State	Area (Thousand hectares)		Production (Thousand tonnes)	
	1971–72	1970–71	1971–72*	1970–71
Andhra Pradesh	1,523·5	1,480·5	1,164·2	1,142·7
Gujarat ..	1,778·4	1,758·3	1,540·7	1,835·9
Madhya Pradesh	463·4	424·6	266·7	304·0
Maharashtra ..	750·5	952·7	467·7	616·6
Mysore	939·2	837·1	684·4	613·1
Punjab	173·1	173·9	159·5	151·9
Rajasthan ..	234·6	213·6	157·9	142·1
Tamil Nadu ..	939·5	1,000·4	953·6	916·7
Uttar Pradesh ..	327·8	347·5	187·9	225·0
All India ..	7,239·6	7,293·0	5,711·9	6,065·2

* Based on results of Random Sample Crop Cutting Surveys.
Source: Agricultural situation in India.

The estimated **world production** of groundnuts was 17·02 million tonnes for the crop year 1970–71 which is 7 per cent higher than the previous year. This is largely attributed to a record production of 6 million tonnes of Indian groundnuts.

Exports of groundnut extractions form a lion's share of the total exports of oilseed meals from India, and constitute approximately 50 per cent of the total world exports. India exported 603,763 tonnes of groundnut meal and 26,783 tonnes of groundnut during 1971–72.

Per Hectare Yield in kg. of groundnut for the last three years has been as follows: 1969-70: 712·4; 1970-71: 831·5; 1971–72: 788·9.

The Vanaspati Manufacturers' Association of India (Address: Harilela House, Mint Road, Bombay-400001) has about 4,046 hectares under experimental cultivation of groundnuts, and produces 30 to 50 per cent more per hectare than the rest of the country. The association achieved a yield of 969 kgs. per hectare in 1970-71.

COTTONSEED

Until about the beginning of the sixties cottonseed was used almost entirely as a cattlefeed, and even now only 40 per cent of the total production is available for crushing.

The yearly **production** of cottonseed is nearly 2 million tonnes, and the production of cottonseed oil is around 95,000 to 98,000 tonnes. Vanaspati industry consumes about 90 per cent of the oil produced.

Cottonseed production is expected to go up to 2·5 million tonnes by the end of the Fourth Plan. If the entire quantity, after providing for sowing requirements, were to become available for crushing through the modern methods, the industry could produce annually 320,000 tonnes of cottonseed oil, 400,000 tonnes of hulls, 75,000 tonnes of linters and a huge quantity of cake. This will help to save substantial amount of foreign exchange. In spite of the huge increase in the production of cottonseed oil, still there is plenty of scope to raise it further. According to the cotton crop estimates, the availability of cottonseed oil can increase upto 250,000 tonnes to 300,000 tonnes. The production of oilseeds is still lagging far behind the demand.

Exports: Almost the entire amount of decorticated Cottonseed extractions produced in 1971 and 1972 were exported as there is virtually no internal market for it. The quantity exported in the same period was 63,550 tonnes and 124,530 tonnes respectively.

The **crushing** of cottonseed is done both by organised and unorganised sectors. In the organised sector there are about 80 units, mostly situated in Maharashtra (26) and Gujarat (45).

The following table gives the record of production achieved by the crushing industry.

	Oil in tonnes	Decorticated Cake Extractions in tonnes	Linters in tonnes
1970	90,250	114,220	3,000
1971	78,250	63,550	4,900
1972	141,000	124,530	9,000

SOYABEAN

The Central Government has a 25 per cent incentive scheme which subsidises the soyabean growers' purchase of pesticides and other inputs to the extent of one fourth of his purchase price. This is in pursuance of the Government's policy to encourage soyabean cultivation for its protein rich content and its use as an additional source of edible oil.

An area of 20,000 hectares has been brought under soyabean crop in 1970-71. The Government has decided to bring 400,000 hectares of land under soyabean by the end of Fourth Plan mainly in Maharashtra, Uttar Pradesh, Gujarat and Madhya Pradesh.

The Food Corporation of India has decided to set up a soyabean processing plant by 1973-74.

India **imports** soyabean oil from U.S.A. under PL 480. It is being used in the manufacture of Vanaspati to control the prices of hydrogenated oil. It also helps to some extent in checking the prices of domestic oils. Since March 1965 to December 31, 1970, import of U.S. Soyabean oil totalled approximately 425,000 tonnes. In 1971–72 the quantity imported was 101,505 tonnes.

SUNFLOWER

The Central Government has launched a Rs. 9·2 million crash programme for development of sunflower in Andhra Pradesh, Tamil Nadu and Mysore as a step towards achieving self-reliance in oilseeds production. The programme envisages bringing of 350,000 hectares under sunflower cultivation by 1973-74 end and 620,000 hectares by 1975-76 end.

About 350,000 tonnes of sunflower is expected to be produced by 1974. This would yield 122,000 tonnes of oil valued at Rs. 368 million. The oil would be used for the manufacture of vanaspati and the oil cake as cattlefeed.

GENERAL

India occupies a leading position both in regard to area and production on the oilseed map of the world.

Oilseeds are cultivated on about 15 million hectares which is about 10 per cent of the total cultivated area. The most important crop is groundnut which covers 7·2 million hectares followed by rapeseed and mustard with 3 million hectares. Next in order of importance are Sesamum, linseed and castor.

In spite of the area and production being more than other countries the yield of oilseeds in India is the lowest in the world at 736 kgs. per hectare against 1,615·38 kgs. per hectare in Nigeria, 1,474·58 kgs. in U.S., 1,153·49 kgs. in Argentina and 1,148·55 kgs. in China.

The **per capita consumption** of edible oil in India is about 2·8 kgs. The combined per capita consumption of oils and fats is 4 kgs. as against the world average of 18 kgs.

INDUSTRIAL OIL

The requirement of industrial oil is 540,000 tonnes for manufacturing 900,000 tonnes of soap annually, for which nearly 100,000 tonnes of fallow is imported every year. The balance of the requirement is being met from rice bran oil, mowrah oil, linseed oil, castor oil and solvent oil of groundnuts and copra.

MISCELLANEOUS OILS

Lemongrass Oil : It is chiefly grown in Kerala. India exports more than Rs. 10 million worth of lemongrass oil annually. It is mainly used as a base for some perfumes for the soap-making industry.

Palm Oil : The Plantation Corporation of Kerala proposes to raise palm oil plantations on a 2,000 hectares area at Bharathipuram near Anchal (Quilon District) under a phased programme extending over five years. Palm oil cultivation is a new venture not only to the Plantation Corporation but to India as a whole.

Saplings germinated from the Malaysian red palm oil seeds have been planted initially in an area of 100 hectares. The object of the scheme is to augment the supply of vegetable oils which are being imported at present. A subsidiary company is being formed for raising oil palm plantation. When the targetted 2,000 hectares are planted with oil palm, the yield will be of the following order, (*i*) Red palm oil 4,446 tonnes, (*ii*) Kernel oil 616 tonnes, (*iii*) Oil cake 616 tonnes.

A similar project has also been sanctioned by the Central Government for Andaman and Nicobar islands on an area of 2,400 hectares.

Palmarosa Oil : India ranks first among nations producing Palmarosa oil, and is the chief supplier of this important raw material for perfumery manufacture, earning foreign exchange worth Rs. 3 million annually by way of its export alone.

To ensure quality control, Government has established a special laboratory at Bombay for AGMARK grading and has banned the export of ungraded Palmarosa oil.

Pine Oil : The first pine oil factory in the country has been started at Hoshiarpur in the Punjab. It produces pine oil, dipentine and pine tar. This factory is claimed to have resulted in the saving of foreign exchange to the tune of Rs. 3 to 4 million annually.

RESEARCH

The Central Government has sanctioned Rs. 15 million for the all-India co-ordinated research project on oilseeds during the Fourth Plan period ; to be conducted under the Indian Council of Agricultural Research. It will cover all important oilseeds crops like groundnut, castor, sesamum, rapeseed, mustard, and linseed.

The technical programme of the project is to include work on breeding and genetics, establishment of germ plasma banks, research in disease and insect resistance etc.

The centres for conducting the research for different oilseeds are as follows :

Groundnut : The main centres are at Ludhiana in Punjab for northern region, Tindivanam in Tamil Nadu for south-eastern region, and Rajendranagar in Andhra Pradesh for southern region. The sub-centres are located at Mainpuri, Uttar Pradesh ; Pollachi, Tamil Nadu ; Kadria and Sambalpur in Madhya Pradesh, and Raichur and Dharwar in Mysore.

Castor : Rajendranagar in Andhra Pradesh, is the main centre and Salem, Tamil Nadu, and Raichur, Mysore, are the sub-centres.

Sesamum : The main centres are at Coimbatore, Tamil Nadu for southern region ; Jubbalpur, Madhya Pradesh for central region and Sumerpur, Rajasthan for northern region. The sub-centres are at Karimnagar and Visakhapatnam in Andhra Pradesh ; Bhubaneshwar, Orissa ; Urmala, Maharashtra, and Jhansi, Madhya Pradesh.

Linseed : Kanpur, Uttar Pradesh is the main centre and Patna, Bihar, and Jhansi and Jabalpur in Madhya Pradesh are the sub-centres.

Rapeseed and Mustard : The main centres are at Berhampore, West Bengal ; Kanpur, Uttar Pradesh and Hissar, Haryana. The sub-centres are at Purnea, Bihar, Pantnagar, Uttar Pradesh and Gurgaon, Haryana.

FOURTH FIVE YEAR PLAN

The estimated demand for oilseeds by the end of the Fourth Plan is 12·1 million tonnes. A growth rate of four per cent compound per annum is called for to achieve the target.

VANASPATI

In 1930 there were only two units manufacturing 330 tonnes of vanaspati. In 1972 there were 77 units.

LOCATION OF THE INDUSTRY

The State-wise break-up of the industry is as follows : Maharashtra 12 ; Gujarat 10 ; Andhra Pradesh 6 ; Uttar Pradesh 10 ; West Bengal 6 ; Mysore 5 ; Rajasthan 5 ; Delhi 2 ; Punjab 7 ; Tamil Nadu 5 ; Madhya Pradesh 2 ; Bihar 1 ; Haryana 4 and Kerala 2.

New Units : Anticipating a shortage in the near future 22 more licences with a total additional capacity of 830 tonnes per day were issued in December 1971. However, the Central Government has stopped further licensing of vanaspati units since February 1973.

Anticipating a shortage in the near future 17 more licences with a total additional capacity of 705 tonnes per day have been issued in December 1971. All proposed units are to be located in northern India.

Public Sector : Government Hydrogenation Factory at Kozhikode, Kerala, is the only factory in the public sector. It has an installed capacity of 3,000 tonnes per annum.

No. of Persons Employed : Between 25,000 and 30,000 employed directly and about 60,000 indirectly.

Capital Investment (net) : About Rs. 250 million.

PRODUCTION AND CONSUMPTION

(in thousand tonnes)

	Installed capacity	Production	Consumption
1970 ..	1,100	521	518
1971 ..	1,803	590	587
1972 ..	1,803	602	602

The production was expected to reach 570,000 tonnes in 1971 against the licensed capacity of 1·6 million tonnes and installed capacity of one million tonnes with an increase in the number of units from 63 to 76.

EXPORTS

In 1971 the government announced an export incentive which is expected to boost Vanaspati exports from the present 500 tonnes.

GENERAL

Prices : Under the Vegetable Oil Products Control Order of 1947 the price of Vanaspati is fixed seperately in the four geographical zones. For the sake of stability the prices are reviewed only about once every two months unless there has been a drastic change in the price of raw oil which alone constitutes 80 per cent of the cost of production. The industry has arrived at an average working cost requirement of Rs. 760 per tonne.

Soyabean oil had to be imported over the last few years to meet the requirements of the industry. However, adequate production of edible oils in 1971 will substantially reduce dependence on imports.

RUBBER INDUSTRY

Rubber is obtained from the milky juice or latex of various plants of the tropics. Of the numerous plants yielding rubber only a few like castila, manihoglaziovii ficus elastica, parthenium argentatum and hevea brasiliensis are of commercial importance. Of these hevea brasiliensis (known as para rubber tree) accounts for 90 to 95 per cent of the world production of natural rubber.

BRIEF HISTORY

Columbus is credited with the discovery of rubber during his second voyage to America towards the end of the fifteenth century. He reported the existence of a gum which was used by the natives of America as balls for games. An Englishman used the term 'rubber' in 1770 when he found that the substance could be used for removing pencil marks. With the discovery of the process known as vulcanisation in 1839 by Goodyear, rubber came to be commercially used.

In India rubber was first planted in Travancore and Malabar in the early eighties of the last century. Plantation on a commercial scale commenced in 1902.

During the first three decades of the present century there was little domestic utilisation of indigenous rubber and the bulk of raw rubber produced had to be exported, till the big overseas manufacturers of rubber footwear, tyres and tubes set up factories in the late thirties. With the outbreak of the Second World War a number of small factories manufacturing other rubber goods also came up and the area under rubber plantation too was increased considerably.

No. of Persons Employed : About 60,000 in the rubber goods manufacturing industry.

Ranking in the World Market : In area India occupies the sixth position in the world with about 200,000 hectares. In production of natural rubber India's position is fifth with 92,000 tonnes.

LOCATION OF THE INDUSTRY

The rubber plantation industry is concentrated mainly in Kerala which accounts for more than 93 per cent of the total area under rubber, the Kanyakumari district in Tamil Nadu for a little over 4 per cent and there is a small area of 3,160 hectares in Mysore. Planting has recently been extended to the Andamans.

State-wise Distribution of the Planted Area at the end of 1968-69

(Area in hectares)

States	Holdings		Estates	
	No. of units	Area	No. of units	Area
Kerala	91,760	118,621	584	56,113
Tamil Nadu ..	1,585	3,389	41	5,859
Mysore	100	324	12	2,778
Andamans ..	—	—	3	388
Maharashtra ..	1	16	Nil	Nil
Goa	3	18	Nil	Nil
Tripura ..	1	8	Nil	Nil
Total	93,450	122,376	640	65,138

PRODUCTION AND CONSUMPTION

(Figures in tonnes)

Year	PRODUCTION				CONSUMPTION			
	Natural	Synthetic	Reclaim	Total Production	Natural	Synthetic	Reclaim	Total Consumption
1968 ..	68,817	25,090	13,492	107,399	84,206	24,517	13,521	122,244
1969 ..	79,951	24,614	13,513	118,078	86,692	30,761	14,119	131,572
1970 ..	89,905	30,337	14,381	134,623	86,469	31,810	13,672	131,951
1971 ..	98,884	33,007	15,433	147,324	93,125	36,672	15,255	145,052
1972 (Aug.)	62,231	20,597	10,031	92,859	66,981	25,311	10,537	102,829

World Supply and Consumption of Natural and Synthetic Rubber

(in '000 tonnes)

Year	Supply		Consumption	
	A	B	A	B
1968 ..	2,710	4,085	2,848	3,983
1969 ..	2,938	4,613	2,945	4,453
1970 ..	2,943	4,850	2,915	4,578
1971 (P) ..	3,060	5,265	3,085	5,105

Source : Rubber Statistical Bulletin.
(P) Estimates. A : Natural Rubber. B : Synthetic Rubber.

India and Brazil are the only countries in the world producing both natural and synthetic rubber and consuming the entire production.

Per Capita Consumption : The per capita consumption of rubber (natural and synthetic) in India is one of the lowest in the world. In 1972, the estimated per capita consumption in U.S.A. was 13·8 kgs., followed by Canada (10·1 kgs.), West Germany (9·2 kgs.), France (8·7 kgs.) and U.K. (8·6 kgs.). India has been at the bottom with a per capita consumption of only 0·24 kg., though compared with 1954 (when the per capita consumption was only a bare 0·07 kg.), consumption of rubber has risen by more than 200 per cent.

Installed Capacity & Output of Selected Rubber Goods in India : 1970–71

Rubber Goods	1970 a	1970 b	1970 c	1971 a	1971 b	1971 c
Automotive tyres/tubes ('000 nos.) :						
Giant tyres	8	2,035	2,093	8	2,200	2,291
Giant tubes	8	2,035	1,707	8	2,200	2,039
Motor cycle tyres	7	200	166	7	200	179
Motor cycle tubes	5	200	194	5	200	207
Scooter tyres	8	450	437	8	450	475
Scooter tubes	6	450	326	6	450	386
Bicycle tyres	11	24,386	20,988	11	24,386	19,188
Bicycle tubes	13	22,200	15,841	13	22,200	12,419
ADV tyres	7	162	176	7	175	196
ADV tubes	6	180	191	6	200	228
Tractor tyres	6	160	186	6	160	212
Tractor tubes	5	165	185	5	165	205
Motor tyres	8	1,000	966	8	1,000	1,202
Motor tubes	7	1,000	1,019	7	1,000	1,250
Other Rubber Goods :						
Radiator hoses	7	523	470	7	523	500
Fan belts	6	5,260	2,341	6	5,260	2,293
Industrial V belts	5	—	2,444	5	—	3,219
Sponge rubber (K)	4	1,022	1,125	4	1,022	998
Footwear (L)	10	55	44·8	10	55	42·6
Rubber conveyor belting (K)	4	3,100	2,277	4	3,100	2,660
Transmission belting (K)	5	4,200	2,819	5	4,200	2,816

a : Number of units. b : Installed capacity. c : Output. Units are in thousand numbers, unless otherwise specified.
K : M. Tons. L : Million Pairs.

There are about 100 large and medium scale factories and about 700 small-scale units manufacturing various other rubber goods including the ones mentioned in the table above.

EXPORTS

There has been a continuous increase in the exports of rubber goods in recent years. Exports of automobile tyres and tubes rose from Rs. 33 million in 1968-69 to Rs. 41 million in 1969-70 and it touched Rs. 55 million against a target of Rs. 60 million in 1970–71. In 1971–72 the exports have been of Rs. 66·8 million and the target set for 1972–73 is of Rs. 85·8 million.

Exports of other rubber goods after declining from Rs. 40 million in 1968–69 to Rs. 38 million in 1969–70, went up to Rs. 41·5 million in 1970–71, and to Rs. 43·5 in 1971–72. The target set for 1972–73 is of Rs. 46·2 million.

IMPORTS

(in tonnes)

	Natural	Synthetic
1968-69	7,001	1,871
1969-70	13,562	4,148
1970-71 (April-Feb.)	1,783	4,778

In July 1971, the Government discontinued the issue of licences for the import of rubber in view of the record internal production and accumulation of stocks with the growers. The import of special-purpose rubber is done through the State Trading Corporation.

Synthetic Rubber : Only Synthetics & Chemicals Ltd. at Bareilly, Uttar Pradesh produce synthetic rubber in the country. Built with an initial rated capacity of 30,000 tonnes per annum, it started production in 1963 with a modest output of 8,511 tonnes. It increased to 30,337 tonnes in 1970 which is slightly in excess of the installed capacity. It is now seeking permission to increase its installed capacity to 50,000 tonnes.

The consumption of synthetic rubber at present is about 26 per cent of the total rubber consumption and the tyre industry uses about 55 per cent of the total synthetic rubber output.

GENERAL

In India the average yield per hectare is 851 kgs. in the case of large plantation holdings and 435 kgs. on small holdings. This works out to an aggregate average yield per hectare in 1969-70 to 618 kgs. which is among the poorest in the world. In Malaysia the average yield is around 950 kgs. per hectare.

Special concessions are made to growers whose holdings are less than six hectares. Subsidised fertilisers, exemption from labour laws and from certain taxes are some of them.

In order to stabilise the rubber prices and to ensure that the grower gets the Government-notified price, the State Trading Corporation has entered into the field of rubber purchase and buys mainly from the small growers.

Rubber Board : Situated at Kottayam 686009, Kerala, it is made up of the representatives of the industry and the Government and it assists the industry in its problems and decides major issues pertaining to it.

Research : Central Rubber Research Farm at Chethackal near Kottayam in Kerala conducts research in all the complex facets of rubber production from planting to the processing stages.

There is one research centre in Bombay set up by the Indian Rubber Manufacturers Research Association at B/88 Wagle Estate, Thana, 400604.

Training : Institute of Technology at Kharagpur, West Bengal and University of Cochin, Kerala conduct courses in rubber technology.

Institution of the Rubber Industries at Delhi, Madras, Bombay and Calcutta (H.Q. Lesley House, 19 J. Nehru Road, Calcutta 700013) conduct lectures for the diploma awarded by the London Institution of the Rubber Industries, England.

Expansion Programme : Following table gives the expansion programme and projection of production by the end of the Fourth Plan for the seven top ranking tyre manufacturers :

(Figures in million)

	Existing capacity	Expansion under implementation	Total	25% Extra allowed	Possible Capacity in 1973–74
Dunlop India Ltd.	1·197	0·250	1·447	0·362	1·809
Firestone Tyre and Rubber Co. of India Pvt. Ltd.	0·672	—	0·672	0·168	0·840
Ceat Tyre of India Ltd.	0·400	0·250	0·650	0·162	0·812
Madras Rubber Factory Ltd. (Mansfield)	0·360	0·250	0·610	0·152	0·762
Goodyear India Ltd.	0·310	0·290	0·600	0·150	0·750
Inchek Tyres Ltd.	0·300	0·300	0·600	0·150	0·750
Premier Tyres Ltd.	0·300	0·300	0·600	0·150	0·750
Total	3·539	1·640	5·179	1·294	6·473

The Central Government has sanctioned the setting up of a factory in Bihar, for the production of automobile tyres and tubes at an estimated cost of Rs. 100 million.

Demands : The current demand for synthetic rubber is 28,000 tonnes which is likely to go up to 54,000 tonnes by 1973-74 against a total demand for natural and synthetic rubber of 179,000 tonnes. It is assessed that the total demand for rubber at about 188,000 tonnes in 1974 and a production of 135,000 tonnes of natural rubber and 33,000 tonnes of synthetic rubber, there will still be a gap of about 20,000 tonnes, which will increase to about 117,600 tonnes by 1983.

Nearly 11 million tyres would be required at the end of the present decade i.e. average requirements will go up by 10 per cent. The total capacity of the existing tyre units would not exceed 6·72 million tyres. Fifteen other companies have been licensed to manufacture tyres and tubes. The total production would therefore come up to 11·16 million pieces.

Publications : 'Rubber' (monthly) C/o Rubber Board, Kottayam 686009, Kerala. 'Rubber India' (monthly) C/o Indian Rubber Industries Association, 12, Rampart Row, Bombay-4090001.

SILK INDUSTRY

BRIEF HISTORY

Sericulture in India falls into two distinct sectors (1) mulberry and (2) non-mulberry. Mulberry silk industry is better organised and accounts for nearly two-thirds of the total natural silk production in the country. The non-mulberry sector comprises of tasar, eri and muga silk. India is thus, the only country in the World which produces all the four commercially known varieties of natural silk *viz.*, mulberry silk, tasar silk, eri silk and muga silk. India holds world monopoly in the production of muga silk — the rare golden yellow silk of Assam. It is the second biggest producer of tasar silk in the world next only to the Peoples' Republic of China.

LOCATION OF THE INDUSTRY

Although it is spread over in all the States it is concentrated mostly in few of them.

Andhra Pradesh: Three varieties of silk *viz.*, mulberry, tasar and eri are produced. Mulberry is confined to Anantapur and Chittoor districts, eri culture to Mahbubnagar and Kurnool while tasar to the forest regions along the banks of the river Godavari in Karimnagar, Warangal and Adilabad districts. About 13,000 persons are employed by the industry in the State.

Assam: The State produces muga, eri and mulberry raw silk mostly in Goalpara, Kamrup and Nowgong districts. Sibsagar is prominent for mulberry production. It is estimated that about 350,000 people derive their livelihood from silk cultivation.

Due to the formation of an autonomous State, Meghalaya, most of the sericultural centres were bifurcated.

Bihar : Bihar is the second largest producer of tasar silk at present accounting for nearly 35 to 40 per cent of local production.

The industry is based in the districts of Hazaribagh, Ranchi, Singhbhum, Manbhum, Palamau, and Santhal Parganas. About 120,000 people derive their livelihood from silk cultivation.

Jammu & Kashmir: The univoltine silk industry is mainly located in Anantnag, Baramulla, Doda, Jammu, Reasi and Udhampur districts. It provides employment to about 380,500 persons.

Madhya Pradesh : Is the single largest producer of tasar silk in the country. It is largely based in the districts of Balaghat, Bastar, Bilaspur, Raigarh, and Surguja. Mulberry is also cultivated to a small extent in Surguja, Chindwara, Indore, and Sehore districts. The industry provides subsidiary occupation to nearly 39,000 families belonging to backward classes in the State.

Maharashtra : In Bhandara and Chandrapur districts in Vidarbha region have traditional tasar culture and there is one tasar farm at Armori ; the State has also taken up eri cultivation on experimental basis. 3,000 families are estimated to be employed by the industry.

Mysore : It is the biggest polyvoltine mulberry silk producing State in India contributing over three-fourths of the total production. The industry is concentrated in the districts of Bangalore, Kolar, Mandya, Mysore and Tumkur and to a small extent in Belgaum and Coorg. About 2 million persons derive livelihood from silk cultivation.

Orissa: Tasar and eri silk industry is concentrated in Mayurbhanj and Keonghar districts where about 10,000 people are employed.

Punjab : Sericulture is practised mainly in the districts of Amritsar, Gurdaspur, Hoshiarpur and to some extent in Ferozepur.

Tamil Nadu: The sericultural industry is confined to the districts of Coimbatore, Nilgiris, Salem, Tirunelveli and Dharampuri. It provides employment to about 63,000 people.

Uttar Pradesh : Mulberry silk industry is practised in six districts of Dehra Dun, Etawah, Garhwal, Gorakhpur, Nainital and Saharanpur. Ericulture is carried on in two districts of Rampur and Deoria and tasar culture is found in Mirzapur district. About 2,300 persons are employed by the industry.

West Bengal : Is the second largest mulberry silk producing State in the country, accounting for over 20 per cent of the country's total output. Tasar and eri silk industry is also practised in the State. Mulberry culture is practised in the districts of Bankura, Birbhum, Darjeeling, Malda and Murshidabad. It is estimated the 400,000 persons are employed by the industry.

Himachal Pradesh : Rears univoltine mulberry silkworms in Kangra district. The other regions where sericulture is practised are Sirmur and Mandi districts. 2,000 families are estimated to earn their livelihood through the industry.

Manipur: Has both mulberry and eri silk cultivation and potential for muga and tasar culture. About 3,000 persons are employed by the industry.

Tripura : Sericulture has been recently introduced. Some 2,650 persons have taken up silk cultivation as source of their livelihood

No. of Persons Employed : Sericulture is a typical agro industry providing gainful subsidiary employment to more than 3·2 million people all over India.

It is expected that during the Fourth Plan this industry would provide additional employment opportunities to 400,000 people.

Capital Investment : The following table indicates the outlays in 1969-70, 1970-71 and 1971-72.

Period	Allocation (Rs. in million)			Expenditure			% of (7) to (4)
	Central Schemes	State Schemes	Total	Central Schemes	State Schemes	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1969–70	3·21	10·93	14·14	3·20	7·90	11·10	7·06
1970–71	3·86	17·01	20·88	3·86	9·36	13·22	6·36
1971–72	4·41	19·61	24·02	4·41	9·30	13·72	5·71

Ranking in the World Market : With a production of 2,046 tonnes of mulberry silk and 554 tonnes of wild silk in 1971-72 India continued to rank fourth among the silk producing countries of the world accounting for slightly over 5 per cent of the world production. However, India is the only country in the world where the fabulously famed golden "Muga Silk" is raised.

Production & Consumption of Raw Silk

(in '000 kgs.)

Year	Mulberry	Non-Mulberry	Total	Imports	Consumption
1969–70	1,823	578	2,401	43	2,444
1970–71	2,319	595	2,914	28	2,942
1971–72	2,046	554	2,600	18	2,618

Production of Raw Silk during 1971-72

Mulberry Raw Silk

(in kgs.)

State	Filature	Cottage Basin	Charka	Dupion	Total
Andhra Pradesh	—	67	10	—	77
Assam	—	—	12,250	—	12,250
Bihar	—	—	94	—	94
Jammu	13,198	—	—	—	13,198
Kashmir	38,296	—	—	—	38,296
Madhya Pradesh	—	490	—	—	490
Mysore	108,479	577,000	1,024,765	45,100	1,755,344
Punjab	—	211	1,227	—	1,438
Tamil Nadu	—	2,056	116	18	2,190
Uttar Pradesh	3,458	—	—	269	3,727
West Bengal	1,705	13,000	202,956	—	217,661
Himachal Pradesh	1,262	65	18	12	1,357
Manipur	—	—	146	—	146
Tripura	—	5	—	—	5
Total ..	166,398	592,894	1,241,582	45,399	2,046,273

Non-Mulberry Raw Silk (in kgs.)

States	Tasar	Eri	Muga	Total
Andhra Pradesh	329	4	—	332
Assam	—	165,750	71,500	237,250
Bihar	167,835	—	—	167,835
Madhya Pradesh	125,000	—	—	125,000
Maharashtra	1,036	—	—	1,036
Orissa	13,000	—	—	13,000
West Bengal	6,680	1,300	—	7,980
Manipur	5	727	—	732
Tripura	—	386	—	386
Total	313,885	168,166	71,500	553,551

SPUN SILK INDUSTRY

Apart from the production of raw silk, India also produces silkwaste — by-product of reeling sector, which constitutes the basic raw material for the spun silk industry. The total production of silkwaste during 1971 was 848,000 kgs. mulberry and 248,000 kgs. non-mulberry.

There are two spun silk mills, located at Channapatna in Mysore and Jagi Road in Assam, having installed spindleage of 7,500 and 3,000 respectively.

A third spun silk mill is under installation at Bhagalpur which, when completed, would have 3,000 spindles.

The two public sector spun silk mills consume about one-third of country's total silkwaste production. On an average about two-thirds of the country's output of silkwaste is exported annually.

Tariff Protection : Sericulture industry has been under tariff protection since 1934. The Government of India has accepted the recommendation of the Tariff Commission in 1969 to extend the period of protection upto December 31, 1974. The current rate of protective duty on raw silk is 30 per cent *ad valorem* plus 2½ per cent additional duty.

EXPORTS

In 1969 and 1970 the Indian silk industry exhibited excellent export performance. Following are the figures in million rupees for the last three years. 1969 — 148·148 ; 1970 — 142·317 ; 1971 — 75·498.

IMPORTS

Between 1955 and 1964, Central Silk Board was importing raw silk on behalf of the State Trading Corporation and distributing it to actual users and exporters. However, this item was decanalised in July 1964. Under the import trade control policy for the year 1970–71 import of raw silk has been canalised through the Board with effect from 1–4–1970.

Imports of Raw Silk over the last three years (in million Rs.) : 1969 — 6·77 ; 1970 — 4·83 ; 1971 — 3·93.

GENERAL

A new silk worm seed of bivoltine race which will revolutionise silk production has been developed at the Central Sericulture Research Institute, Mysore. The cocoon from this seed will have a filament length of nearly 900 metres.

The normal length of filament in the State was about 500 metres as the Mysore race was multivoltine with poor quality. For a kg. of silk, as much as 14 to 20 kgs. of cocoons were necessary now against five kgs. of cocoons yielding one kg. of silk in Japan.

Central Silk Board : In 1945, the Silk Panel, appointed by the Government of India to advise on the development of sericulture, recommended the construction of Central Silk Board. Accordingly the Central Silk Board Act, 1948 (Act. LXI of 1948) was enacted and the Board was set up in April 1949.

The Headquarters of the Board are located in Bombay. The Board has set up 4 Liaison Offices in the different regions for purposes of ensuring close co-ordination of Central and State efforts to develop the sericulture industry. The location of these offices are — *Head Office :* Central Silk Board, 'Meghdoot', 95-B, Marine Drive, Bombay-400002. Tele. Add. : ' SILKBOARD', BOMBAY.

Liaison Offices : (1) 10, Kengal Hanumanthiah Road, Bangalore-560027. Tele. Add. : 'SILKBOARD', BANGALORE. (2) 4, Tottee Lane, Off Sudder Street, Calcutta-700016. Tele. : 'SILKBOARD', CALCUTTA. (3) 8-B, Pusa Road, Rajinder Park, New Delhi-110060. Tele : 'SILKBOARD', NEW DELHI. (4) Opp. Neelam Cinema, New Secretariat Road, Srinagar (Kashmir). Tele. : 'LIAISON', SRINAGAR.

Inspection Centres : The Board is in charge of preshipment inspection relating to exportable silk fabrics. To discharge this work an inspection centre is attached to each of the four liaison offices listed above. In addition a centre each is located at Bhagalpur, Madras and Varanasi at the addresses given below :—(1) 44, D. N. Singh Road, Bhagalpur 812001 (Bihar) ; (2) 41-East Mada Street, Mylapore, Madras-600004. Tele. : 'SILKBOARD', MADRAS ; (3) K 61/158 B, Rajdevi Katra, Bulanala, Varanasi 221001. Tele. : 'SILKBOARD', VARANASI.

RESEARCH AND SERVICE STATIONS

Research work relating to sericulture is centralised at present under the direct control of the Board. The Central Silk Board has organised the following institutions for tackling the research problems of sericulture industry :— (1) Central Sericultural Research & Training Institute, Shanthi Vilas, Nazarbad, Mysore-570001. Tele. : 'RESEARCH ', MYSORE. **(Exclusively for mulberry silk Sector)** (2) Central Sericultural Research Station, Berhampore Court 742101 (West Bengal). Tele. : 'SERISTATION' BERHAMPORE. (3) Central Tasar Research Station, West End Park, P.O. Hehal, Ranchi 834001 (Bihar). Tele. : 'SILK-BOARD', RANCHI (4) Central Sericultural Research Sub-Station, P.O. Kalimpong 734301 (West Bengal) (5) Central Tasar Research Sub Station, Batote (Jammu and Kashmir) (6) Central Tasar Research Sub-Station. Mantripokhri, Imphal 795001 (Manipur) (7) Central Tasar Research Sub-Station, Bhimtal, (Uttar Pradesh). **(Exclusively for tasar silk sector)** (8) Sericultural Research Station, Titabar (Assam). **(Exclusively, for eri and muga sector.)**

Service Stations : Basic seed stations have been set up to produce high quality disease free seeds. Following three stations have been organised so far :

Mulberry sector : (1) Central Silkworm Seed Station, P.O. Pampore, Jammu & Kashmir. Tele.: 'UNIVOLTIN'.

(2) Silkworm Seed Station, Coonoor 643101 (Nilgiris), Tamil Nadu, Tele.: 'SILKBOARD',

Tasar Sector : (3) Central Tasar Seed Station, P.O. Lakha (Raigarh Dist.), Madhya Pradesh. Tele.: 'SILKBOARD'.

Training : A fifteen month post-graduate course is offered at the Central Sericultural Research and Training Institute, at No. 78, Shanthi Vilas, Nazarbad, Mysore 570010. The academic session commences in July every year. The course includes a 3 months' intensive training in the practice of sericulture both in the mulberry and non-mulberry sectors. The capacity of the Institute is to train 20 students every year.

Training at "technician" level is imparted by the sericultural States themselves. Such institutes are at (1) Srinagar (Jammu & Kashmir); (2) Channapatna (Mysore); (3) Berhampore (West Bengal); (4) Bhagalpur (Bihar) and (5) Titabar (Assam).

Publications : (1) Indian Silk (monthly); (2) Indian Journal of Sericulture (Annual); (3) Silk in India (Biennial), all brought out by the Central Silk Board.

FOURTH FIVE-YEAR PLAN

The following table shows production of silk in 1969 and the expected increase at the end of the Fourth Plan.

(In tonnes)

Variety	1969	At the end of IV Plan 1974
(a) Mulberry silk	1,758	2,300
(b) Non-mulberry silk		
(i) Tasar (Antheraea mylitta)	252	350
(ii) Eri (Attacus ricini) ..	216	250
(iii) Muga (Antheraea assamensis)	72	100
Total	2,298	3,000

The current Plan seeks to attain self-sufficiency in raw silk through increased productivity rather than through expansion of area under food plants. The expansion of the industry is likely to open new employment avenues for another 0·4 million people.

A sample survey recently undertaken in Mysore State has revealed that production of raw silk in the rain-fed areas could be increased 5-fold by providing irrigational facilities. Accordingly, a Rs. 1,020 million scheme is being separately thrashed out.

The total target for exports of silk fabrics during the entire Fourth Plan period (1969 to 1974) has been fixed at Rs. 585 million.

SPICES

INDIA has always been the traditional home of spices and has throughout history been associated with their trade. It was for spices that men from strange lands came to the shores of India and bartered, their wares. Since then, spices figure in the country's exports.

Indian spices are of the finest quality and today the demand for them has considerably increased in all countries.

PEPPER

Pepper, known as the "King of Spices", is the most important foreign exchange earner among the spice crops. The Indian black pepper is considered to be superior in quality by the importing countries and fetches a better price than other varieties of black pepper.

Pepper production in the country accounts for 25 to 30 per cent of the total world production of about 100,000 tonnes; from the point of view of international trade, more than 80 per cent of the country's produce is exported.

The State-wise break-up of area and production for the year 1971-72 are given below.

State	Area ('000 hectares)	Production ('000 tonnes)
Kerala	116·34	25·10
Mysore	2·05	1·00
Tamil Nadu	0·23	0·05
Others	0·03	0·01
Total	118·65	26·16

Export of pepper during 1971-72 totalled 19,247 tonnes valued at Rs. 148·25 million.

Per hectare yield of pepper is about 220 kgs. The internal consumption of pepper in 1970-71 was 8,190 tonnes.

CARDAMOM

Cardamom, known as the "Queen of Spices", is another most valued spice. Among spices it earns the second highest amount of foreign exchange. India is the dominant supplier of cardamom to the world market, accounting for about 90 per cent of the world output.

The state-wise break-up of area and production for the year 1970–71 are given below. However, in 1971–72 the area increased to 77,400 hectares and production to 3,500 tonnes.

State	Area ('000 hectares)	Production ('000 tonnes)
Kerala	47·50	1·20
Mysore	23·10	1·40
Tamil Nadu	4·88	0·50
Total ..	75·48	3·10

Exports of cardamom during 1970–71 amounted to 1,765 tonnes valued at Rs. 113·35 million and in 1971–72 to 2,225 tonnes valued at Rs. 81·97 million.

Per hectare yield of cardamom is about 41 kgs.

GINGER

India is the leading ginger producing country and accounts for about 50 per cent of dry ginger output in the world. Indian ginger has always found ready demand in foreign countries despite stiff competition from Jamaica, Sierra Leone and Nigeria.

Area and Production of Ginger during 1971-72.

State	Area ('000 hectares)	Production ('000 tonnes)
Andhra Pradesh	0·90	0·30
Gujarat	0·94	0·70
Haryana	0·03	0·07
Himachal Pradesh ..	2·22	0·77
Kerala	11·87	23·31
Madhya Pradesh ..	1·11	1·07
Maharashtra	0·53	0·43

State	Area ('000 hectares)	Production ('000 tonnes)
Mysore	1·05	1·30
Orissa	1·88	1·75
Rajasthan..	0·10	0·16
Tamil Nadu	0·80	0·71
West Bengal	1·60	2·50
Tripura	0·31	0·30
Mizoram	0·16	—
Total	23·50	33·78

By exporting 6,746 tonnes of ginger, India earned foreign exchange worth Rs. 27·53 million during 1971-72.

Per hectare yield of ginger is about 1,328 kgs. The internal consumption of ginger in 1970-71 was 25,450 tonnes which included the imports of 156 tonnes.

CHILLIES

The cultivation of chillies is widely scattered throughout the country. Its annual consumption varies from region to region, ranging from about 3·5 kgs. per adult in Andhra Pradesh to around 5 kgs. per adult in Maharashtra. In Punjab, Bihar, U.P. and Orissa consumption is lower. The state-wise break-up of area and production is shown in the following table for the year 1971-72.

State	Area ('000 hectares)	Production ('000 tonnes)
Andhra Pradesh	191·6	94·5
Assam	8·8	5·6
Bihar	11·6	16·2
Gujarat	18·1	12·9
Haryana	12·1	8·9
Kerala	3·2	2·7
Madhya Pradesh ..	40·3	11·1
Maharashtra	137·6	70·9
Mysore	106·3	32·4
Orissa	30·9	18·4
Punjab	19·0	19·4
Rajasthan	41·5	24·2
Tamil Nadu	80·0	115·5
Uttar Pradesh	19·3	5·3
West Bengal	8·5	7·4
Others	5·0	3·9
Total	733·8	439·3

Through exports of 4,510 tonnes of chillies the country earned foreign exchange worth Rs. 19·22 million during 1971–72.

Per hectare yield of chillies is about 580 kgs. The internal consumption of chillies in 1970–71 was 411,229 tonnes including the imports of 2 tonnes.

TURMERIC

The major turmeric growing States in India are Andhra Pradesh, Maharashtra, Bihar, Tamil Nadu and Orissa. The state-wise break-up of area and production of turmeric during 1971-72 is given in the table below:

State	Area ('000 hectares)	Production ('000 tonnes)
Andhra Pradesh	21·6	47·0
Assam	4·7	2·8
Bihar	8·5	15·2
Kerala	4·2	4·4
Maharashtra	9·5	11·5
Meghalaya	2·3	1·5
Mysore	1·6	3·3
Orissa	13·2	13·0
Tamil Nadu	10·6	39·8
West Bengal	1·2	3·3
Others	1·9	2·1
Total	79·3	143·9

Turmeric has outclassed chillies in the spices trade by becoming the third largest foreign exchange earner.

The exports of turmeric during 1971-72 amounted to 14,172 tonnes and fetched Rs. 29·04 million by way of foreign exchange.

Per hectare yield of turmeric is about 1,915 kgs. The internal consumption of turmeric in 1970-71 was 133,097 tonnes which included the imports of 6 tonnes.

Other items of spices which are exported from India are coriander seed, celery seed, fenugreek, ani seed, cassia, cumin, curry powder, fennel seed, garlic and bay leaf.

EXPORTS

Even though spices are regarded as indispensable in everyday life, their contribution to India's foreign trade as also to the total world trade is negligible. But from the point of view of India spices exports have more than doubled from Rs. 166 million in 1960-61 to Rs. 361·75 million in 1971-72.

Export Targets

(Quantity in Tonnes)

Year	Pepper	Ginger	Chillies	Turmeric
1975 ..	31,000	8,000	6,000	13,000
1980 ..	34,000	9,000	7,000	15,000
1985 ..	37,000	10,000	8,000	17,000

Export Duty: An export duty of Rs. 1·25 per kg. is being levied on export of Pepper.

Spices Export Promotion Council, World Trade Centre, Ernakulam, Cochin-682016, Kerala.

IMPORTS

Spices worth Rs. 8·75 million were imported into India during 1971–72 as against Rs. 4·73 million during 1970–71.

GENERAL

Grading of spice commodities according to Agmark specifications has been made compulsory under the Sea Customs Act for export trade.

Regulated Markets: With a view to preventing exploitation of producers and getting better prices for their produce, regulated markets have been established in many of the important assembling centres. About 829 regulated markets were functioning in the different states at the close of the year 1970-71.

Research : The Indian Council of Agricultural Research decided in April 1971 to establish a **National Spices Research Centre** at Chathamangalam near Calicut, Kerala. A sum of Rs. 5 million has been provided for its establishment.

Development: The Central Government has constituted an **Indian Spices Development Council** consisting of Government officials and non-officials representing the growers and the traders. It reviews the work of development already in progress and recommends further development programmes. These programmes are implemented through the **Directorate of Arecanut & Spices Development** functioning at 1/500, Cannanore Road, Calicut 673001, Kerala.

FOURTH FIVE YEAR PLAN

Adoption of intensive cultivation practices such as proper manuring, plant protection, irrigation etc., increase in area and adoption of high yielding improved varieties of seed material are some of the measures proposed for the development of spices. These measures would achieve an additional production of 14,000 tonnes of pepper, 5,000 tonnes of ginger and 15,000 tonnes of turmeric by the end of the Fourth Five Year Plan period (1969–74). For the development of tree spices (clove, nutmeg and cinnamon) in which the country is not self-sufficient schemes for production and distribution of seedlings have been proposed with a view to increase the area under these crops. A programme for production of nutmeg grafts, which are early bearers, has also been envisaged during the Fourth Plan period.

Publications : (1) 'Spices' Bulletin (Monthly) brought out by the Spices Export Promotion Council. (2) 'Arecanut and Spices' (Quarterly Bulletin), Directorate of Arecanut and Spices Development, Calicut 673001, Kerala.

SUGAR INDUSTRY

BRIEF HISTORY

SUGAR manufacture in India got a spurt after the Government granted it protection in 1932. From dependence on imports the country became self-sufficient within four years thereafter.

In 1931-32 there were an estimated 32 working units. By 1935-36 the number rose to 130. The volume of sugar production which was 162,000 tonnes in 1931-32 increased to 947,000 tonnes by 1935-36.

During all the Plan periods the industry exceeded the targets fixed. There was a seasonal setback, however, in 1966-67 when production dropped sharply because large tracts of cane had withered in the drought conditions that hit most sugar producing States.

The Government had introduced partial decontrol of sugar in 1967-68.

It is the second largest industry in the country, second only to textiles.

LOCATION OF THE INDUSTRY

Area under sugarcane cultivation in major producing states in 1971-72 is as follows : (in '000 hectares) Andhra Pradesh : 125·5 ; Bihar : 141·9 ; Haryana : 114·0 ; Maharashtra : 181·8 ; Mysore 106·8 ; Punjab : 104·0 ; Tamil Nadu : 120·7 ; Uttar Pradesh : 1,274·1 ; Total All India : 2,418·0.

State-wise break-up of the sugar factories in 1971-72 given in brackets :

Andhra Pradesh (18) ; Assam (1) ; Bihar (25) ; Gujarat (7) ; Haryana (3) ; Kerala (3) ; Madhya Pradesh (5) ; Maharashtra (42) ; Mysore (13) ; Orissa (2) ; Pondicherry (1) ; Punjab (6) ; Rajasthan (3) ; Tamil Nadu (16) ; Uttar Pradesh (73) ; West Bengal (1) ; Total (219).

The installed capacity in 1971-72 season was 3·95 million tonnes.

Public Sector : Up to the end of 1970 there were no factories in the public sector. The Government of Uttar Pradesh had been considering the nationalisation of the Industry in that State but no further action had been taken in the matter till the end of 1971. The U.P. Vidhan Sabha had on August 16, 1971, passed the Sugar Undertakings Acquisition Bill under which the State government acquired 12 "sick" mills.

No. of Persons Employed : The Industry employs about 235,000 workers and about 25 million agriculturists are connected with it. The annual wage bill works out to Rs. 450 million.

Capital Investment : A total of about Rs. 600 million is invested in this industry.

PRODUCTION AND CONSUMPTION

Comparative figures of production and consumption of sugar for the last three years are :

(In million tonnes)

	1969-70	1970-71	1971-72*
Production	4·26	3·74	3·10
Consumption	3·26	4·03	3·80

* Estimated.

There was a marginal fall in sugar production from 4·26 million tonnes in 1969-70 to 3·77 million tonnes in 1970-71 and 3·10 million tonnes in 1971-72 because of drought and flood conditions and also partly due to decline in cane average in many sugar producing States.

State-wise Production : Of sugar for the year 1970-71 and estimates for 1971-72 is as follows : (figures in tonnes).

Andhra Pradesh : 267,219 and 300, 801 ; Assam : 7,519 and 5,328 ; Bihar : 292,799 and 152,144 ; Gujarat : 83,957 and 97, 863 ; Haryana : 82,756 and 75,154 ; Kerala : 15,884 and 11,001 ; Madhya Pradesh : 37,771 and 21,507 ; Maharashtra : 1,054,884 and 1,006,495 ; Mysore : 204,684 and 226,500 ; Orissa : 7,603 and 6,583 ; Pondicherry : 17,775 and 22,737 ; Punjab : 48,093 and 31,815 ; Rajasthan : 13,368 and 7,703 ; Tamil Nadu : 299,024 and 300,000; Uttar Pradesh : 1,299,393 and 833,731 (West U.P. : 391,891 and 304,855 ; East U.P. 382,991 and 215,622 ; Central U.P. : 524,511 and 313,254) West Bengal ; 7,660 and 644.

Sugar-cane and Gur: State-wise production of sugarcane and gur ('000 tonnes) respectively for 1970-71 was as follows :—

Andhra Pradesh : 10,508·3 ; 1,060·0 ; Bihar : 6,493·9 ; 649·4 ; Haryana : 6,980·0 ; 698·0 ; Maharashtra : 14,770·0 ; 1,678·7 ; Punjab : 5,270·0 ; 527·0 ; Tamil Nadu : 10,443·4 ; 1,143·9 ; Uttar Pradesh : 55,663·8 ; 5,566·4 ; Total (All India) : 128,769·4 ; 13,319·8.

Main By-products : Production of the two main by-products over the last three years was as on next page.

(In million tonnes)

	Molasses	Bagasse
1969-70	2·00	14·77
1970-71*	1·62	12·40
1971-72*	1·20	9·90

* Estimated.

There are about 67 distilleries in the country with an annual installed production of 94·7 million gallons. There are also 7 paper factories which consume bagasse as raw material.

Per Capita Consumption : Per capita consumption of sugar in India and abroad during the years 1968 to 1970 (latest available) :

	1968	1969	1970
India	4·6	5·8	6·9
Sri Lanka	23·7	24·9	24·2
Japan	23·6	25·6	29·0
Indonesia	6·6	6·5	6·4
Malaysia	31·9	39·2	38·9
Pakistan	4·8	4·8	4·8
Asia	6·8	7·4	8·1
Europe	39·2	39·5	39·7
N. America	50·1	48·6	50·6
C. America	50·1	48·6	38·9
S. America ..	35·3	34·2	34·8
Africa	10·6	10·9	11·6
World Average ..	19·2	19·4	20·0

EXPORTS

India first entered the world market as an exporter in 1957. Since then the industry has become a major foreign exchange earner. In the year 1970-71 Government decided to export the full quota of 325,000 tonnes under the International Sugar Agreement and NPC quota.

The figures for exports over the last four years are as follows :

1967-68 : 125,000 tonnes; 1968-69 : 84,000 tonnes; 1969-70 : 212,000 tonnes and 1970-71 : 325,000 tonnes.

GENERAL

On 25th May, 1971 Government decontrolled movement of sugar and fixed its price. However, a partial control was reimposed with effect from 1st July, 1972.

The volume of sugar production in 1971-72 season in the country is of the order of Rs. 5,500 million. The cane growers alone received from the Sugar Industry more than Rs. 3,800 million during that season. Its contribution to the exchequers of both the Central and State Governments in the shape of excise duty, cane cess, income tax, surtax etc. is about Rs. 2,000 million.

Training : The Sugar Industry gives practical training facilities to students of sugar technology and also trains a number of apprentices, as required under the Apprentices Act.

National Sugar Institute : at Grand Trunk Road, Kanpur, Uttar Pradesh conducts courses in sugar technology, besides many other agricultural universities which have this as a subsidiary subject.

Research : It is done at the **Sugar-cane Research Institute** at Anakapalle, Andhra Pradesh and at the Institute of Sugar-cane Research, Lucknow, Uttar Pradesh.

Ten Largest Units

Name	Address	Capacity (in tonnes)
The Hindustan Sugar Mills Ltd.	Golagokarnnath, Kheri, U. Pradesh.	3,660
The Upper Doab Sugar Mills Ltd.	Shamli, Muzaffarnagar, Uttar Pradesh.	3,810
Saraswati Sugar Mills	Yamunanagar, Haryana.	4,000
The Nizam Sugar Factory Ltd.	Shakarnagar, Nizamabad, A. P.	4,250
The K. C. P. Sugar Factory Ltd.	Vuyyuru Krishna, Andhra Pradesh.	3,750
Upper Ganges Sugar Mills Ltd.	Seohara, Bijnor, Uttar Pradesh.	3,600
Mawana Sugar Works	Mawana, Meerut, Uttar Pradesh.	3,810
Raja Buland Sugar Co. Ltd.	Rampur, Uttar Pradesh.	3,000
Shetkari Sahakhari Sakhar Karkhana Ltd.	Sangli, Maharashtra.	3,200
The Rahuri Sahakari Sakhar Karkhana Ltd.	Ahmednagar, Maharashtra.	2,600

National Federation of Co-operative Sugar Factories Ltd. L-8, South Extension Part II, New Delhi 110049 was set up in December 1960, with the object of co-ordinating and facilitating the working of co-operative sugar factories, State and zonal federations and to assist in the promotion of new co-operative sugar factories.

So far, licences/letters of intent have been issued for establishment of 126 co-operative sugar factories. Of these 80 sugar factories are in operation. Others are in various stages of establishment. In the year 1970-71, the co-operative sugar factories produced 1·26 million tonnes of sugar which was nearly 34 per cent of the total production in the country in that year. The co-operative sector was also the major producer and supplier of raw sugar for export in 1970-71. In the total export of sugar (raw & white) the co-operative sector's contribution was nearly 64 per cent of the quantity exported.

FOURTH-FIVE YEAR PLAN

For the Fourth Plan the Government has set up a sugar production target of 5·20 million tonnes and licenses have already been issued for 5·30 million tonnes capacity.

Publications : 'Shakara', a quarterly bulletin brought out by the National Sugar Institute.

The Indian Sugar Mills Association brings out the following publications : (1) India Sugar : Monthly Magazine ; (2) Indian Sugar Year Book : Annual Publication ; (3) List of Sugar Mills in India and Pakistan : Annual Publication

The National Federation of Co-operative Sugar Factories Ltd., also brings out the following publications : (1) Co-operative Sugar (2) Co-operative Directory and Year Book.

TEA INDUSTRY

BRIEF HISTORY

CHINA is believed to be the original home of the tea plant where it was first introduced as a medicine and the infusion taken to cure diseases.

In 1823 the tea plant was discovered growing wild in Assam. It was then that China lost its monopoly of tea trade. The East India Company entered the trade with the first shipment of eight chests of Assam tea which were sold in London in May, 1834.

LOCATION OF THE INDUSTRY

The two main tea-growing regions in India are North-East India and South India the break up of which is given below:

States	Area in hectares as on		No. of tea gardens as on	
	31·3·70	*31·3·71	31·3·70	1971*
Assam	180,065	182,325	751	750
West Bengal ..	87,989	88,499	296	296
Bihar	460	460	3	3
Tripura ..	5,526	5,444	54	53
Uttar Pradesh	1,903	1,818	30	30
Himachal Pradesh ..	4,183	4,183	1,385	1,385
Total North India ..	280,126	282,729	2,519	2,517
Tamil Nadu ..	34,587	34,646	6,439	6,450
Mysore ..	1,866	1,870	16	16
Kerala	37,554	37,271	2,629	3,032
Total South India ..	74,007	73,787	9,084	9,498
Total All India :	354,133	356,516	11,603	12,015

* Provisional.

There were 495 tea companies during 1969-70.

No. of Persons Employed: The estimated daily average labour employed during 1970 (provisional) was as follows: Total North India : 613,265 ; Total South India : 146,381 ; Total All India : 759,646.

PRODUCTION

India's tea production is the largest in the world. Following table gives the State-wise break-up of the production.

(In '000 kgs.)

State	1969	1970	1971*
Assam	204,738	212,027	224,053
West Bengal	88,591	101,197	102,859
Bihar	41	36	42
Tripura	2,824	2,547	2,736
Uttar Pradesh ..	450	566	614
Himachal Pradesh ..	919	975	888
Total North India ..	297,563	317,348	331,192
Tamil Nadu	52,108	55,557	56,301
Mysore	2,557	2,848	2,817
Kerala	41,360	42,763	43,012
Total South India ..	96,025	101,169	102,130
Total All India ..	393,588	418,516	433,322

* Provisional.

There are 26 countries in the **world** which produce tea. **Production** of tea in selected principal producing countries is given in the table below:

(In '000 kgs.)

Country	1969	1970	1971*
India	395,968	418,516	433,322
Sri Lanka ..	219,639	212,210	217,773
Indonesia ..	39,500	43,148	48,120
Kenya	36,061	41,077	36,290
Pakistan ..	29,999	31,381	12,449
Uganda	17,627	18,217	17,966
Malawi	16,916	18,731	18,615
Mozambique ..	16,034	16,974	16,536
China	158,760	n.a.	n.a.
Japan	89,604	91,198	92,911
Turkey	34,303	33,431	32,260
Formosa ..	26,248	27,648	26,924
U.S.S.R. ..	59,900	66,800	68,000
Argentina ..	18,880	19,530	25,000

Note: * Provisional. n.a. : Not Available.

The **total world production** of tea : 1969 : 1,052 m. kgs ; 1970 : 1,091 m. kgs ; 1971 (Provisional) : 1,113 m kgs.

Ranking in the World Market

Share of Tea Producing Countries to Total World Exports

Countries	1969		1970		1971*	
	Q	%	Q	%	Q	%
India	168·7	29·1	202·1	31·8	206·1	32·0
Sri Lanka	201·4	34·7	208·3	32·8	200·8	31·2
Indonesia	27·1	4·7	36·3	5·7	39·0	6·1
East Africa..	74·7	12·9	75·9	11·9	76·1	11·8
Other Africa	22·1	3·8	25·3	4·0	26·7	4·2
China	31·0	5·3	30·0	4·7	30·0	4·7
Formosa	21·3	3·6	20·4	3·2	22·8	3·5
Japan	1·6	0·3	1·5	0·2	1·4	0·2
Malaysia	1·3	0·2	1·0	0·2	0·8	0·1
Other countries	30·7	5·3	34·8	5·5	39·9	6·2
TOTAL	579·9	100·0	635·6	100·0	643·6	100·0

* Provisional.

Q — Quantity in million kgs.

CONSUMPTION

The estimated consumption of tea in India: 1968–69: 185·9 m. kgs; 1969–70: 203·3 m. kgs; 1970–71: 213·0 m. kgs.

Per Capita Consumption of Tea in Selected Countries:

Countries	1967—69 Total in '000 tonnes	1967—69 P.hd. in kg.	1968—70 Total in '000 tonnes	1968—70 P.hd. in kg.
United Kingdom	222·93	4·02	222·90	3·97
France ..	2·98	0·06	3·21	0·06
West Germany	8·39	0·14	8·74	0·15
Ireland ..	11·65	4·00	11·81	4·04
U.S.S.R. ..	70·17	0·29	75·46	0·31
Canada	20·55	0·99	19·99	0·95
U.S.A.	66·01	0·33	65·16	0·32
Iraq	18·61	2·15	20·22	2·16
Jordan ..	2·64	1·25	2·78	1·26
Libya	8·21	4·55	N.A.	N.A.
Morocco ..	15·26	1·05	15·72	1·04
Tunisia ..	5·05	1·03	4·72	0·94
Australia ..	28·27	2·35	27·21	2·21
New Zealand ..	7·74	2·82	7·54	2·72
India	189·96	0·36	194·61	0·38
Pakistan ..	N.A.	N.A.	N.A.	N.A.
Sri Lanka ..	17·97	1·50	18·45	1·51
Japan	92·18	0·91	97·64	0·95

N.A. — Not Available.

According to an estimate the total world supply of tea in 1971 was 928 m. kgs. and the consumption was 913 m. kgs.

EXPORTS

Tea is the second largest foreign exchange earner of the country. India exports tea to over twenty different countries of the world of which United Kingdom buys almost half of the total exports. U.S.S.R., U.A.R., and Afghanistan are some of the other big buyers of Indian tea.

Quantity and Value of Tea Exported to Selected Countries

Selected Countries	1970 Q	1970 V	1971* Q	1971* V
U.K.	96,619	704·6	70,234	523·9
U.S.S.R.	28,763	239·5	41,273	338·3
Sudan	11,953	62·6	12,940	78·6
U.A.R.	11,587	72·8	15,947	58·1
Afghanistan ..	10,732	67·1	9,046	106·6
U.S.A.	7,116	54·4	5,649	69·8
Irish Republic ..	4,841	38·2	3,062	44·1
Australia	3,688	24·2	3,845	21·0
Canada	3,280	24·8	—	28·2
Total for all countries:	202,016	1,487·5	206,074	1,553·4

Q — Quantity in '000 kg. V — Value in Rs. million.
* Subject to revision. *Source:* Tea Board Statistics.

Export Promotion: Name and Address of Tea Councils entrusted with the promotion of Indian tea.

1. *The Council of U.S.A. Inc.*, 230, Park Avenue, New York City, U.S.A. 2. *Comite Francais Du The*, 4 Avenue de la Bourdonnais, Paris, 7, France, 3. *The Gessellschaft fur Teewerbung, M.B.H.* Hamburg 1, Steindamm 9, Federal Republic of Germany. 4. *The Tea Council of U.K.* 4/5, Copthall Court, London, E.C.4. U.K. 5. *Tea Council of Australia*, 44, Martin Place, G.P.O. Box 1949, Sydney, Australia. 6. *Tea Council at New Zealand*, Fourth Floor, Achilles House, 47, Customs Street East, P.O. Box No. 844, Aucland CI, New Zealand. 7. *Tea Council at Canada*, 42, Charles Street, East, Toronto 5, Ontario, Canada. 8. *Tea Council at Ireland Ltd.*, 85, Harcourt Street, Dublin 2. Ireland.

GENERAL

The average yield per hectare even in the best tea gardens is only about half of 8,000 pounds (3628·73 kgs.) per hectare obtained in some leading tea producing countries.

Average Yield Per Hectare of Tea in India

(In kgs.)

States	1969	1970	1971*
Assam	1,141	1,178	1,229
West Bengal ..	1,012	1,150	1,162
Bihar	89	78	91
Tripura	514	461	503
Uttar Pradesh ..	232	297	338
H.P. (Kangra & Mandi)	220	233	212
North India ..	1,066	1,133	1,171
Tamil Nadu ..	1,515	1,606	1,625
Mysore	1,375	1,526	1,506
Kerala	1,087	1,139	1,154
South India	1,292	1,367	1,384
Total All India ..	1,114	1,182	1,215

Note: * Provisional.

Auction Centres: Indian tea is sold through auction centres at Calcutta and Cochin, which are also the major ports for export of tea where nearly 160 m. kgs. and 60 m. kgs. of tea respectively is sold annually. Tea is sold at these two auctions under competitive conditions and buyers from all countries of the world participate either directly or through their agents.

A new auction centre was started at Gauhati, Assam, from September, 1970.

About 70 to 75 m. kgs. of Indian tea is sold through the London auction centre, major portion of which is meant for consumption in the U. K.

The Central Government earns about Rs. 320 million annually on tea through the customs and central excise.

Instant Tea: The production of instant tea in India is from green leaf rather than from manufactured black tea, as is the practice in the U.S.A. It is manufactured in India by Tata Finlay Ltd. and Food Specialities Ltd. exclusively for exports.

Production of Instant Tea in India and Sri Lanka during 1968 to 1971

(In kgs.)

	India	Sri Lanka
1968	89,042	134,729
1969	226,092	136,339
1970	316,594	112,899
1971*	255,019	N.A.

* Provisional. N. A.: Not Available.

Export of Instant Tea from India and Sri Lanka during 1968 to 1971

	India (in kgs.)	Value (in Rs.)	Sri Lanka (in kgs.)
1968 ..	60,397	1,938,037	127,817
1969 ..	197,672	6,517,957	131,602
1970 ..	318,724	10,500,454	114,043
1971 ..	246,677	7,986,028	N.A.

N. A. — Not Available.

Research : The Toklai Experimental station in Assam is the major source of technical know-how on tea culture and manufacture and it is considered to be one of the largest research establishments in the world dedicated entirely to tea. **The United Planters' Association of Southern India** (address : Coonoor, Tamil Nadu) has its own tea experimental station in Nilgiri Hills. Facilities for tea research in south India are at the Central Laboratory and Field Station in the Anamallis and a sub-station in Kerala. The scientific problems of the tea industry in the Kangra Valley are looked into by a Tea Experimental Farm located at Palampur. All these tea research establishments in India receive substantial financial assistance from the Government through the **Tea Board of India** (address : 14, Brabourne Road, Calcutta-700001) which also maintains a close liaison with these institutions. The Tea Board also sponsors and finances independent research projects at different Universities and technical institutions to supplement the work of the various tea research establishment in the country.

Some Top-most Tea Producing Estates

1. **Hattigor T.E. :** P.O. Hattigarh, Dt. Darrang, Assam. 2. **Kakajan T.E. :** P.O. Nakachari, Dt. Sibsagar, Assam ; 3. **Balijan North T.E. :** P.O. Chabua, Dt. Lakhimpur, Assam ; 4. **Dheodam T.E.:** P.O. Barahapjan, Dt. Lakhimpur, Assam ; 5. **Beech T.E. :** P.O. Beech, Dt. Jalpaiguri, West Bengal ; 6. **Craigmore T.E. :** P.O. Kulla Kamby, Dt. Nilgiri, Tamil Nadu ; 7. **Monabarrie T.E. :** P.O. Borgang, Dt. Darrang, West Bengal ; 8. **Powai T.E. :** P.O. Powai, Dt. Lakhimpur, Assam ; 9. **Dewan T.E. :** P.O. Dewan, Dt. Cachar, Assam ; 10. **Satali T.E. :** P.O. Hasimara, Dt. Jalpaiguri, West Bengal.

FOURTH FIVE YEAR PLAN

Production Target : By 1973-74 the industry expects to produce 460 m.kgs.

Export Target : By 1973-74 the industry expected to be able to export 250 m.kgs. which had subsequently been revised to 230 m.kgs.

TOBACCO INDUSTRY

BRIEF HISTORY

ALTHOUGH the official and accepted history of the development of tobacco on any appreciable scale in this country dates back to the advent of the Portuguese here in the beginning of the 17th century, the very large number of references to tobacco in the Puranic tales and references to the preparation of certain medicines according to the Ayurvedic system show that tobacco was known to India from time immemorial.

The black porous soil in certain parts of east India, throughout the Coromandel coast, particularly Guntur and East and West Godavari districts of Andhra are considered to be favourable to the growth of quality grades of tobacco. Appreciating the agricultural excellence of this country, the Portuguese and the British organised the cultivation of this golden commercial crop.

LOCATION OF THE INDUSTRY

The table below gives the area under tobacco cultivation in the important tobacco growing States for the last three years.

Area in thousand hectares.

States	1969-70*	1970-71†	1971-72‡
Andhra Pradesh	204·1	222·1	225·1
Bihar	13·9	13·5	12·5
Gujarat ..	88·7	86·9	85·6
Maharashtra ..	12·1	13·2	13·3
Mysore ..	41·6	42·8	39·6
Orissa	12·5	14·2	13·2
Tamil Nadu ..	16·1	14·6	11·5
Uttar Pradesh	12·3	10·9	11·1
West Bengal ..	13·9	10·1	12·1
Total (including other States)	437·9	446·9	445·0

* Partially Revised Estimates. † Fully Revised Estimates.
‡ Final Estimates.

Source: Directorate of Economics & Statistics, Government of India.

The main tobacco industries are cigarette, bidi, cigar and cheroot manufacture. The present total number of cigarette factories in the private sector is 13, of which 6 are in Maharashtra, 2 each in West Bengal and Uttar Pradesh and 1 each in Mysore, Andhra Pradesh and Tamil Nadu. Recently letters of intent have been issued to set up 6 new cigarette factories. The cigar industry is concentrated in Tamil Nadu. The cheroot factories are, however, spread out all over India. The production of bidis is a cottage industry on a country-wide basis.

There are about 19 zerda manufacturing factories (chewing tobacco) and 3 snuff factories in the country situated mostly in Tamil Nadu and Uttar Pradesh.

Public Sector : The State Industrial Development Corporations of Assam, Haryana, Jammu and Kashmir, Kerala and Tamil Nadu have each been issued a letter of intent to set up a cigarette manufacturing unit. Each unit will have a capacity of 4,500 million cigarettes annually, except the unit in Assam which will have a capacity to produce 3,000 million pieces per year. An application from the Madhya Pradesh Industrial Development Corporation is reported to be under consideration.

No. of Persons Employed : It is estimated that about 700,000 growers and 500,000 curers are engaged in tobacco cultivation. In the manufacturing sector, the total number of persons employed is estimated at 3 million of which, 2 million are in the bidi industry. About 14,000 are employed in the cigarette industry.

Ranking in the World Market : India is the third most important tobacco producing country next only to U.S.A. and Mainland China and accounts for about 8 per cent of the total world tobacco production.

Following is the estimated area in thousand hectares and production in million kgs. respectively, of tobacco producing countries of the world for the year 1971.

Argentina : 76·9, 59·0 ; Brazil : 195·8, 197·3 ; Burma : 53·8, 43·0 ; Greece : 94·7, 89·5 ; India : 440·7, 349·9 ; Indonesia : 208·8, 105·0 ; Japan : 65·5, 149·7 ; Malawi :

51·8, 28·0; Pakistan: 106·0, 158·1; Philippines: 104·8, 70·5; Thailand: 92·3, 44·6; Turkey: 310·0, 147·6; U.S.A.: 344·4, 818·2; U.S.S.R.: 253·7, 288·0; Estimated World total: 4,057·3, 4,542·8; (Total includes data for countries not listed.)

Source: Foreign Agriculture Circular — December '71 U.S.D.A. Data for India — Directorate of Economics and Statistics.

Note: The area and production of tobacco in Mainland China is not available. However, as per estimates published by the F.A.O. it is reported to be around 700 thousand hectares, while production ranges between 775 to 850 million kgs.

PRODUCTION

India produces several types of tobacco which fall under two botanical species, namely Nicotiana Tabacum and Nicotiana Rustica, and are used for different purposes such as in the manufacture of cigarettes, bidis, cigars, cherrots and for chewing, hookah and snuff.

State-wise Production: In million kgs.

States	1969–70*	1970-71††	1971-72†
Andhra Pradesh	124·5	144·0	194·1
Bihar	12·2	12·0	12·4
Gujarat ..	99·8	113·0	116·4
Maharashtra ..	6·0	6·1	6·6
Mysore ..	20·3	20·9	16·6
Orissa	11·2	12·3	10·7
Tamil Nadu ..	23·8	21·8	17·2
Uttar Pradesh ..	11·5	9·7	11·0
West Bengal ..	12·8	7·7	8·6
Total All India (Including other States)	337·1	361·9	409·2

* Partially Revised Estimates. †† Fully revised Estimates.
† Final Estimates.

Source: Directorate of Economics & Statistics.

Production Statistics of Bidis are not available. However, it is estimated that about 250 billion pieces of bidis are manufactured annually.

Production of Cigarettes, Capacity and Utilisation

(Millions of Cigarettes)

Year	Production	Capacity	Utilisation
1968	60,420	56,400	107·1
1969	59,710	58,290	102·4
1970	62,110	58,290	106·6
1971	65,801	57,688	114·0

CONSUMPTION

RAW TOBACCO CLEARED FOR HOME CONSUMPTION

('000 kgs.)

Variety	1968–69	1969–70	1970–71
Flue Cured Virginia Tobacco	39,453	40,111	42,894
Other than F.C.V. Tobacco but used in the manufacture of cigarettes and smoking mixture for pipes and cigarettes	29,260	29,497	28,834
Other than Flue-cured tobacco and intended to be manufactured into:			
Bidi	71,305	76,799	78,568
Cigar and Cheroot	16,885	15,237	15,045
Snuff	4,460	4,456	4,490
Hookah ..	26,818	27,784	26,085
Chewing ..	53,007	51,164	50,945
Others (Mostly used for bidi purposes or charged at bidi rates) ..	5,106	5,739	5,501
Agricultural purposes ..	47,005	52,729	44,039
Destruction ..	4,124	2,193	1,741
Stalks	31,111	31,154	28,624
Miscellaneous and Sp. Industrial purposes ..	550	1,118	1,455
Total	329,084	337,981	328,221

Source: Statistics and Intelligence Branch, Central Excise, New Delhi.

Nearly 80 per cent of the tobacco produced is locally consumed and the rest is exported.

Per Capita Consumption: The total monthly consumption of cigarettes is estimated at approximately 5,306·5 million pieces. Yet the per capita consumption rate per month in India is about 10, as against 217 in US., 176 in UK, 170 in Japan, 168 in Singapore, 70 in Malaysia 24 in Pakistan, 20 in Ceylon and 13 in Nepal.

Consumption of cigarettes in India is expected to reach 85,000 million by 1974. In 1971 it was estimated the number of smokers in India was 20 million.

Tobacco in Each Cigarette: A regular ordinary cigarette of 7 m.m. length contains 1·05 gm. to 1·12 gm. of tobacco.

EXPORTS

India is the fourth biggest exporter of tobacco in the world next only to U.S.A., Turkey and Greece. Tobacco is one of the important cash crops of the country and ranks ninth in India's export trade.

Indian tobacco, mostly unmanufactured, is exported to over 60 countries of them U.K. and U.S.S.R. are the biggest buyers.

(In million Kgs.)

	1969-70	1970-71	1971-72
U.K.	20·5	18·6	17·6
U.S.S.R.	10·0	7·0	18·8
	54·3	47·9	59·6
Total (including other countries) Foreign Exchange earned in Rs. million ..	334	325	433

Exports of Cigarettes during 1968-69 to 1971-72; (Quantity in thousand kgs. and value in million rupees respectively) was: 1968-69: 18, 0·32; 1969-70: 29, 0·26; 1970-71: 186, 2·98; 1971-72: 1,178, 15·70.

Exports of Bidis during 1968-69 to 1971-72; (Quantity in thousand kgs. and value in million rupees respectively) was: 1967-68: 142, 2·00; 1968-69: 114, 1·87; 1969-70: 105, 1·78; 1970-71: 109, 1·90; 1971-72: 83, 1·59.

Export Duty: With the devaluation of rupee in June, 1966, an export duty of 75 paise per kg. or 20 per cent ad valorem which ever is lower was levied on unmanufactured tobacco.

Export Incentive: Incentives for exports of tobacco and tobacco products are provided by way of import entitlements/replenishments. The registered exporters get import replenishments against which they are allowed to import certain permitted items like equipment for tobacco processing, manufacturing, packing operations and also essential oils used for tobacco manufacture. In addition cigar exporters are allowed to import cigar wrapper and filler tobacco.

Export Promotion Council: The main objective of the Tobacco Export Promotion Council (a Government agency), situated at 123, Mount Road, Madras 600006, is to support, protect, maintain and promote exports of unmanufactured and manufactured tobacco.

Statutory grades for all the varieties of unmanufactured tobacco entering the export trade have been prescribed by the Government for strict quality control.

IMPORTS

The quantity and value of tobacco (manufactured, unmanufactured and cigarettes) imported into India during the past four years are given in the table below:

Year	Quantity (in thousand Kg.)	Value (Rupees in Million)
1968-69	336	4·53
1969-70	504	5·39
1970-71	38	0.22
1971-72	122	0·40

The imports of virginia flue-cured tobacco were mainly from the U.S.A.

GENERAL

The nicotine content in virginia flue-cured tobacco grown in India ranges between 0·6 per cent to 3 per cent. Nicotine content is lower in Virginia tobacco grown in light soil areas and high in tobacco grown in heavy black soil.

Tobacco is an excisable commodity and its movements, processing and manufacture from the stage of harvesting till it is consumed or exported are controlled by the Central Board of Excise and Customs of the Ministry of Finance.

Different rates of duties are levied for different types and modes of consumption. The excise revenue collected during 1970-71 was Rs. 2,284 million. Customs duties totalled about Rs. 35 million.

Research: Research programmes on tobacco are implemented by the Indian Council of Agricultural Research. The Council has initiated an All India Coordinated Research Project on tobacco with its headquarters at Anand (Gujarat) with a view to conduct research for all round improvement of Indian tobacco. **The Central Tobacco Research Institute** at Rajahmundry in Andhra Pradesh is mainly devoted to the investigation of fundamental problems connected with various aspects of tobacco. It also coordinates the work of other tobacco experimental farms and research stations (listed below), spread all over the country, which are carrying out research on different types of tobacco grown in the concerned regions.

1. Cigarette Tobacco Research Substation, Guntur, Andhra Pradesh.
2. Tobacco Research Station, Hunsur, Mysore.
3. Cigar & Cheroot Tobacco Research Station, Vedasandur, Tamil Nadu.
4. Hookah and Chewing Tobacco Research Station, Pusa, Bihar.
5. Hookah Tobacco Research Station, Ferozpur, Punjab.
6. Wrapper and Hookah Tobacco Research Station, Dinhata, West Bengal.
7. Bidi Tobacco Research Scheme, Anand, Gujarat.
8. Bidi Tobacco Research Station, Nipani, Mysore.

A well organised extension service operates in the tobacco growing areas under the control of Agricultural Departments of the State Governments for educating and training the farmers in the improved methods of harvesting, handling and curing of tobacco.

The Indian Tobacco Development Council of the Government, formulates the tobacco development programmes, reviews the progress and considers the problems of marketing, trade and price policy.

The Tambaku Vikas Nideshalaya (Directorate of Tobacco Development) in the Ministry of Agriculture, with its headquarters at 3-A, Eldams Road, Teynampet, Madras 600018, implements the development schemes, channels Government finances and also looks after the marketing activities.

The average **Per Hectare Yield** of tobacco in India during the last few years is given in the table below:—

Year	All tobacco HA/KG	Virginia tobacco
1966-67	834	816
1967-68	871	729
1968-69	821	796
1969-70	779	607

According to the information compiled by the Tobacco Research Station, the cost of cultivation of V.F.C. tobacco which is the main exportable variety, is estimated to range between Rs. 1,750 to Rs. 1,875 per hectare which does not include cost on account of land rent, depreciation, interest on capital etc.

FOURTH FIVE YEAR PLAN

Under the Fourth Plan, the production target for tobacco has been fixed at 450 million kgs. for 1973-74 as against the base level production 350 million kgs. in 1968-69. The taget includes a production level of 168 million kgs. of Virginia tobacco. Under the Plan, a Centrally Sponsored Scheme for exportable types of tobacco has been sanctioned by the Government. The scheme aims at extension of cultivation of virginia flue-cured tobacco in new light soil areas. As against the Plan target of 28,000 hectares, an area of 22,300 hectares was already covered by 1971-72.

A sum of Rs. 2·5 million has been set apart for coordinated research on tobacco during the Fourth Plan.

Publications: 'Indian Tobacco Bulletin' (Quarterly), 3, Eldams Road, Madras 600018. 'Tobacco Export' (Monthly), 123, Mount Road, Madras 600006.

EDUCATION

Number of Universities rose from 47 in 1960 to 92 in 1970, and the **number of colleges** from 1,542 in 1960-61 to 3,604 in 1970-71.

Number of Illiterates in 1971 was 386 million as against 388 million in 1961. However, the percentage of literacy according to 1971 census rose to 29 per cent. from 24 per cent in 1961. (See also Chapter on Population).

Free Education : The position as on 15th February, 1973 : (1) All education free in Jammu & Kashmir and Nagaland ; (2) All school education, including P.U.C. classes, free in Tamil Nadu ; (3) All education upto end of Secondary stage free in Andhra Pradesh, Kerala and Mysore ; (4) Primary education free in Maharashtra and Gujarat. Also all education free for children of parents earning less than Rs. 1,200 a year ; (5) In Rajasthan, all education is free for girls and only primary education is free for boys ; (6) In Punjab, Haryana and Madhya Pradesh primary education is free ; (7) In Uttar Pradesh education is free for girls upto class X and for boys upto Class VI ; (8) In Bihar primary education is free ; (9) In West Bengal primary education is free for girls in rural areas and free for boys in some rural and urban areas between Classes I and V, whilst in Calcutta and other urban areas it is not yet free ; (10) In Orissa primary education is feee ; (11) In Assam primary education is free for girls in Classes I to VIII and for boys in Classes I to V ; (12) In Delhi primary education is free ; (13) In all other Union Territories primary education is free.

Compulsory Primary Education Act has been passed by all States except Nagaland and Himachal Pradesh.

Enrolment since Independence

Age Group	1951	1971
6 to 11	18,200,000 or 43 per cent of age group.	60,500,000 or 80 per cent of age group
11 to 14	3,100,000 or 13 per cent of age group	14,300,000 or 35 per cent of age group.

Expenditure on Education

The total expenditure on education which was about Rs. 1,100 million in 1950-51 has risen to an estimated Rs. 11,000 million in 1971-72.

This amounts to about 3·1 per cent of the national income.

SUBJECTS OF STUDY

(Derived with permission from 'Directory to Subjects of Study at Indian Universities' published in the annual **Commonwealth Universities Yearbook** by the Association of Commonwealth Universities, London and **University Grants Commission,** New Delhi.)

This directory contains a list of selected subjects which may be studied at universities in India, some in the departments or constituent colleges of universities themselves, some in colleges affiliated to universities, and others in both. The list is not exhaustive but it does cover most of the main subjects in which facilities for study or research are available. Many of the universities which provide courses for bachelor's or master's degrees in a subject also provide facilities for research in aspects of it which may lead to a doctorate.

Subjects marked† may, depending on the university, either (*a*) form a greater or lesser part of the course for a bachelor's degree, or (*b*) be studied for a master's degree, or (*c*) both.

Universities marked * in the article provide instructions upto the post-graduate level; 'm' and 'd' under the Medicine list indicate Master's Degree (including MD) and Government Diploma.

Agriculture : Bachelor's: Agra*, Allahabad*, Andhra Pradesh Agri. * Annamalai*, Assam Agri.* Banaras*, Bhagalpur*, Bihar*, Calcutta*, G. B. Pant Univ. of Agri. & Tech.* (Previously U.P. Agri.), Gorakhpur, Gujarat*, Himachal Pradesh*, J. L. Nehru Krishi*, Kalyani* Kanpur*, Kerala*, Kurukshetra, Madras*, Madurai*, Mahatma Phule Krishi, Meerut*, Orissa Univ. of Agri. & Tech.*, Panjab*, Panjab Agri.*, Punjabrao Krishi*, Rajasthan, Ranchi*, Sardar Patel* Saurashtra, South Gujarat*, Tamil Nadu Agri.*, Udaipur*, Univ. of Agri. Sciences*, Visva-Bharati. **Master's:** Universities marked*. **Diploma:** Assam Agri.

Dairy husbandry, dairying/dairy science/dairy technology: Bachelor's : Allahabad (animal husbandry & dairying), Assam Agri. (animal husbandry), Bhagalpur, G. B. Pant, Univ. of Agri. & Tech., Panjab, Panjab Agri. (animal husbandry), Panjabrao (animal husbandry), Sardar Patel. **Master's:** Allahabad, Assam Agri. (animal husbandry), Meerut (animal husbandry & dairying), Panjab, Sardar Patel, Udaipur. **Diploma:** Indian Inst. of Tech., Kharagpur.

Horticulture : Bachelor's : Bhagalpur, Haryana Agri. Master's : Allahabad, Assam Agri., Banaras, Bhagalpur, Haryana Agri., J. L. Nehru Krishi, Kalyani, Madras, Meerut, Nagpur, Udaipur. **Diploma:** Madras.

Ancient Indian History, Culture and Archaeology/Indology :† Agra, Allahabad, Andhra, Banaras, Baroda, Bombay, Calcutta, Gorakhpur, Gujarat, Jabalpur, Karnatak, Kurukshetra, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Panjab, Patna, Poona, Rajasthan, Ravi Shankar, Saugar, Shivaji, Vikram, Visva-Bharati. **Diploma/Certificate:** Allahabad (archaeology), Banaras, Mysore.

Anthropology :† Allahabad, Andhra, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gujarat Vidyapith (social anthropology), Karnatak, Lucknow, Madras, Panjab, Poona, Punjabi (social anthropology) Ranchi, Ravi Shankar, Saugar, Srivenkateswara, Utkal. **Diploma/Certificate:** Calcutta (applied anthropology), Madras, Ravi Shankar (applied anthropology and tribal welfare).

Architecture : Bachelor's : Bangalore, Baroda, Bhopal, Bombay, Calcutta, Delhi, Indian Inst. of Tech., Kharagpur, Jadavpur, Kerala, Madras, Nagpur, Osmania, Panjab, Roorkee. **Master's:** Banaras (art & architecture), Baroda (town & country planning), Calcutta, Roorkee. **Diploma:** Banaras (Art & Architecture), Gujarat.

Assamese:† Burdwan, Dibrugarh, Gauhati.

Astronomy:† Lucknow, Osmania.

Audiology and speech therapy: Bachelor's : Bombay.

Bacteriology:† Andhra, Bihar, Bombay, Delhi, Gujarat, Kerala, Madras, Mysore, Osmania (MD), Poona, Rajasthan. **Diploma:** Rajasthan.

Bengali:† Allahabad, Banaras, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gujarat, Jadavpur, Lucknow, North Bengal, Panjab, Patna, Punjabi, Rabindra Bharati, Ranchi, Utkal, Visva-Bharati, **Diploma/Certificate :** Allahabad, Banaras, Delhi, Lucknow, Visva-Bharati.

Biochemistry:† Aligarh, Allahabad, Andhra, Banaras, Baroda, Bombay, Calcutta, Delhi, Dibrugarh (MD), J. L. Nehru Krishi, Kerala, Lucknow, Madras, Mysore, Nagpur, Osmania, Panjab, Panjab Agri. Post-graduate Research Inst. in Medicine, Chandigarh, Rajasthan, Sambalpur (MD). **Diploma :** Indian Inst. of Science Bangalore.

Biophysics:† Banaras (MD), Bombay, Madras, Panjab, Punjabi, Post-graduate Research Inst. in Medicine, Chandigarh.

Botany:† Agra, Aligarh, Allahabad, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Berhampur, Bhagalpur, Bhopal, Bihar, Birla Inst. of Tech. & Science, Pilani, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, G. B. Pant Univ. of Agri. & Tech., Gorakhpur, Gujarat, Haryana Agri., Indore, Jabalpur, Jammu, Jiwaji, Jodhpur, Kalyani, Kanpur, Karnatak, Kerala, Kurukshetra, Lucknow, Madras, Madurai, Magadh, Marathwada, Meerut, Mysore, Nagpur, North Bengal, Osmania, Panjab, Patna, Poona, Punjabi, Rajasthan, Ranchi, Ravi Shankar, Sambalpur, Sardar Patel, Saugar, Saurashtra, Shivaji, South Gujarat, Srivenkateswara, Udaipur, Utkal, Vikram, Visva-Bharati.

Buddhist Studies : Master's : Delhi.

Chemistry:† Guru Nanak, Himachal Pradesh : I. I. T. Bombay, I. I. T. Delhi, I. I. T. Kanpur, I. I. T. Kharagpur, I. I. T. Madras, Jadavpur, Panjab Agri., Roorkee and all universities listed above under ' Botany '.

Commerce and Business Management: Bachelor's and master's in commerce : Agra, Aligarh, Allahabad, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Berhampur, Bhagalpur, Bhopal, Bihar, Bombay, Burdwan, Calcutta, Calicut (Master's only), Cochin (Master's only), Delhi, Dibrugarh, Gauhati, Gorakhpur, Gujarat, Indore, Jabalpur, Jammu, Jiwaji, Jodhpur, Kanpur, Karnatak, Kashmir, Kerala, Kurukshetra, Lucknow, Madras, Madurai (bachelor's), Magadh, Marathwada, Meerut, Mysore, Nagpur, North Bengal, Osmania, Panjab, Patna, Poona, Punjabi (bachelor's), Rajasthan, Ranchi (bachelor's), Ravi Shankar, Sambalpur, Sardar Patel, Saugar, Saurashtra, Shivaji, South Gujarat, Srivenkateswara (bachelor's), Udaipur, Utkal, Vikram. Bachelor's and master's in business management : Banaras, Dibrugarh (bachelor's), Osmania. **Bachelor's in business administration :** Birla Inst. of Tech. & Science Pilani, Madurai, Rajasthan. **Master's** in business administration : Allahabad, Andhra, Birla Inst. of Tech. & Science, Pilani, Cochin, Delhi, Himachal Pradesh, Jodhpur, Lucknow, Osmania, Panjab, Panjab Agri. (agri. business administration), Poona, Panjabi, Rajasthan, Shivaji, Udaipur. Master's in industrial management : Cochin, I. I. T. Madras. Master of management science studies ; Bombay, Madras. Diploma/Certificate : agricultural marketing — Shivaji ; accounting & taxes — Shivaji ; Banking/bank administration — Aligarh, Baroda, Gujarat ; banking & finance — Rajasthan ; business administration/management — Aligarh, Allahabad, Bombay, Calcutta, Delhi, Indore, Jammu, Kerala, Madras, Nagpur, Poona, Shivaji, South Gujarat ; financial & industrial relations — Shivaji ; industrial administration/management — Allahabad, Bombay, Delhi, Indian Inst. of Science, Bangalore, Kerala, Madras, South Gujarat ; management studies : Madurai ; rural services†, Nagpur. **Master's in rural studies :** South Gujarat, **Diploma in Steno-typing :** Aligarh.

Computer Science/Technology : Bachelor's : I. I. T. Kanpur, Master's : Bombay, Diploma : Bombay (c. management), I. I. T. Kharagpur, Jadavpur, Certificate : South Gujarat (c. programming).

Co-operation : Master's : Bhagalpur (rural economics & c.) Diploma : Andhra (c. & rural studies), Baroda, Gujarat, Marathwada (co-operative management), Rajasthan, Shivaji.

Criminology and Forensic Science : (See also under 'Medicine') Karnatak, Mysore, Saugar. Diploma/Certificate : Delhi (forensic sciences), Lucknow, Madras, Rajasthan, Saugar, Shivaji.

Dance : See 'Music'.

Dentistry : Bachelor's: Bangalore*, Bombay*, Calcutta, Gujarat*, Indore, Kerala*, Lucknow*, Madras*, Mysore*, Nagpur, Osmania, Panjab*, Patna, Punjabi, Master's : universities marked*.

Dogri : Certificate: Jammu.

Drama : Bachelor's and master's : Rabindra Bharati. Diploma : Gujarat, Punjabi (dramatic arts), Rabindra Bharati.

Economics† **:** Agra, Aligarh, Allahabad, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Berhampur, Bhagalpur, Bhopal, Bihar, Birla, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gorakhpur, Gujarat, Haryana, Agri. (agri. economics), Himachal Pradesh (agri. economics), Indore, Jabalpur, Jadavpur, Jamia Millia Islamia, Jammu, Jiwaji, Jodhpur, Kalyani, Kanpur, Karnatak, Kashi Vidyapith, Kerala, Kurukshetra, Lucknow, Madras, Madurai, Marathwada, Meerut, Mysore, Nagpur, North Bengal, Osmania, Panjab, Panjab Agri., Patna, Poona, Punjabi, Rajasthan, Ranchi, Ravi Shankar, Sambalpur, Sardar Patel, Saugar, Saurashtra, Shivaji, S.N.D.T. Women's, South Gujarat, Srivenkateswara, Udaipur, Utkal, Varansaseya Sanskrit Vish., Vikram, Visva-Bharati.

Economics Applied : Master's : Andhra, Utkal.

Education : B.Ed./B.T.: Agra*, Aligarh*, Andhra*, Annamalai*, A. P. Singh, Banaras*, Bangalore*, Baroda*, Berhampur, Bhagalpur, Bhopal, Bihar, Bombay*, Burdwan, Calcutta*, Delhi*, Dibrugarh, Gauhati* Gorakhpur*, Gujarat*, Gujarat Vidyapith*, Himachal Pradesh*, Indore*, Jabalpur*, Jammu, Jiwaji*, Jodhpur, Kalyani*, Kanpur*, Karnatak*, Karala*, Kurukshetra*, Lucknow*, Madras*, Madurai*, Marathwada*, Meerut*, Mysore*, Nagpur*, North Bengal, Osmania*, Panjab*, Patna*, Poona*, Panjabi*, Rajasthan*, Ranchi*, Ravi Shankar*, Sambalpur, Sardar Patel*, Saugar*, Saurashtra*, Shiviji*, S.N.D.T. Women's*, South Gujarat*, Srivenkateswara*, Udaipur*, Utkal*, Varanaseya Sanskrit Vish, Vikram, Visva-Bharati*. **Master's:** Allahabad and universities marked*. **Diploma:** Baroda, Bihar, Bombay, Gauhati, Gujarat, Jabalpur, Kalyani, Karnatak, Lucknow, Nagpur, Patna, Poona, Rajasthan, Sardar Patel, Shivaji. Diploma in adult education : Rajasthan. Diploma/Certificate in educational administration : Baroda, Nagpur, Sardar Patel (School administration). **Diploma in educational & Vocational Guidance :** Nagpur. Diploma in educational measurement & evaluation : Nagpur. Diploma/Certificate in guidance & Counselling : Baroda, Panjab, Sardar Patel. Master's in Education & Community Psychology : Punjabi.

Engineering Technology : Chemical : Bachelor's : Andhra*, Annamalai*, Banaras*, Baroda, Birla*, Bombay*, Burdwan, Gujarat, I. I. T. Bombay*, I. I. T. Delhi*, I. I. T. Madras*, Jadavpur*, Madras*, Nagpur*, Osmania*, Panjab*, Roorkee, Sambalpur* (see also oil technology). Master's : Indian Inst. of Science, Ranchi and Universities marked.*

Engineering, Civil, Electrical or Machanical : (See also 'Technology' below). Bachelor's Agra (electrical, mechanical), Aligarh*, Allahabad*, Andhra*, Annamalai*, A.P. Singh, Banaras*, Bangalore*, Baroda*, Bhagalpur, Bhopal (electrical, civil, mechanical), Bihar Birla*, Bombay*, Burdwan*, Calcutta*, Delhi*, Dibrugarh, Gauhati, G.P. Pant Univ. of Agri. & Tech., Gorakhpur, Gujarat*, I. I. T. Bombay*, I. I. T. Delhi*, I. I. T. Kanpur*, I. I. T. Kharagpur*, I. I. T. Madras*, Indian Institute of Science (electrical communication, electrical & mechanical), Indore*, Jabalpur*, Jadavpur*, Jiwaji, Jodhpur*, Karnatak, Kerala*, Kurukshetra*, Madras*, Madurai, Marathwada*, Mysore*, Nagpur, North Bengal*, Osmania*, Panjab*, Patna, Poona*, Punjabi, Rajasthan*, Ranchi*, Ravi Shankar, Roorkee*, Sambalpur*, Sardar Patel*, Saurashtra, Shivaji*, South Gujarat, Srivenkateswara*, Vikram, **Master's :** Indian Institute of Science and universities marked*. **Diploma :** Aligarh (Civil, electrical, mechanical).

Engineering : Some Other Branches : (See also 'Technology' below). **Aeronautical** engineering-Bachelor's : I. I T. Kanpur, I. I. T. Kharagpur, I. I. T. Madras, Panjab, Master's : I. I. T. Bombay, I. I. T. Kanpur, I. I. T. Madras, Indian Institute of Science. **Agricultural** engineering-Bachelor's : Allahabad, Bhagalpur (with soil conservation), Haryana Agri., G. P. Pant Univ. of Agri. & Tech.*, I. I. T. Kharagpur, J. L. Nehru Krishi Vish., Panjab Agri. (also Master's), Panjabrao Krishi, Udipur. Master's (Agri. Engg.) — Allahabad, Panjab Agri. Diploma in Agri. engineering-University of Agri. Sciences Hebbal. **Electronics & communication** engineering-Roorkee (B.E., M.E.), Kurukshetra (B.Sc.). **Architectural** engineering-Bachelor's : Roorkee, Automobile engineering Master's : Bombay. **Civil & Hydraulic** Engg., Master's : Indian Institute of Science. **High Voltage** engineering-Master's : Indian Inst. of Science. **Highway Marine** engineering structures — Bachelor's : Andhra. Master's : Mysore. **Material Science** engineering-Bachelor's : I. I. T. Kanpur. **Internal combustion** engineering-Master's : Indian Inst. of Science. **Metallurgy** engineering-Bachelor's and Master's : Indian Inst. of Science, Roorkee. **Mining** engineering/mining-Bachelor's : Banaras, Calcutta, I. I. T. Kharagpur, Jodhpur, Madras, Osmania, Ravi Shankar, Master's : Banaras. I. I. T. Kharagpur, Jodhpur. **Public Health** engineering-Master's : Bangalore, Calcutta, I. I. T. Kharagpur, Nagpur, Roorkee. **Radar** engineering-Master's : I. I. T. Delhi. **Space engineering & rocketry**-Master's : Ranchi. **Telecommunication** engineering-Bachelor's : Andhra, Jadavpur, Karnatak, Osmania, Poona. Master's : Jadvpur, Poona. **Textile** engineering-Master's : Baroda.

English† : Rabindra Bharati and all universities listed above under 'Economics'.

English as a Foreign Language : Diploma : Jiwaji, Calicut, Madurai (teaching of English), Shivaji (teaching English as a foreign language).

Fine Arts : (See also 'Painting'). Bachelor's : Banaras, Baroda, Kerala, Nagpur, Panjab, S.N.D.T , Visva-Bharati (History of Art). Master's : Baroda, Madras, Panjab. Diploma/Certificate : Allahabad (applied arts & crafts for women), Banaras, Gujarat, Rabindra Bharati, Visva-Bharati. Speech — Punjabi (Speech).

Folklore Studies : Diploma : Rajasthan (folkloristics).

FOREIGN LANGUAGES : Diploma/Certificate (unless otherwise indicated) : **Arabic :** † Agra, Aligarh, Allahabad, Banaras, Bhopal, Bihar, Bombay (also diploma and certificate), Burdwan, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Jamia Millia, Jammu (certificate), Kerala, Lucknow, Madras, Nagpur, Osmania, Panjab, Patna, Poona, Rajasthan, Shivaji, Srivenkateswara, Utkal, Visva-Bharati. **Cambodian :** Banaras. **Chinese :** Allahabad, Banaras, Calcutta, Delhi, Gorakhpur, Lucknow, Panjab, Punjabi, Saugar, Varanaseya Sans. Vish., Visva-Bharati. **French :** Agra, Aligarh, Allahabad, Annamalai, Banaras, Bangalore, Baroda, Bombay, Burdwan (also bachelor's), Calcutta, Delhi, Gauhati, Jadavpur, Jodhpur, Karnatak, Kurukshetra, Lucknow, Madras, Madurai, Mysore, Nagpur, Osmania, Panjab, Poona, Punjabi, Rajasthan, Udaipur, Utkal, Varanaseya Sans. Vish., Visva-Bharati. Master's : Agra, Annamalai, Bombay, Calcutta, Karnatak, Madras, Madurai, Poona. **German :** Jadavpur (also bachelor's), Kerala Marathwada, Sardar Patel, South Gujarat, Vikram and Universities named under 'French' above except Annamalai, Jodhpur, Kurukshetra. Master's : Agra, Banaras, Bombay, Calcutta, Karnatak, Poona. **Greek :** † Agra, Allahabad, Bombay, Burdwan, Calcutta. **Hebrew :** † Agra, Allahabad, Bombay, Burdwan, Calcutta, Madras, Panjab. **Italian** Calcutta, Delhi. Master's : Agra. **Japanese :** Banaras, Visva-Bharati. **Latin†.** Agra, Allahabad, Bihar, Bombay, Burdwan, Calcutta, Gauhati, Madras, Nagpur, Panjab, Poona, Shivaji, Utkal. **Middle Eastern Languages :** Mysore. **Mongolian :** Banaras. **Persian†** : Agra, Aligarh, Allahabad, Banaras, Baroda, Bihar, Bombay. (also certificate), Burdwan, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Jabalpur, Jamia Millia, Jammu (certificate), Karnatak, Lucknow, Madras, Mysore, Nagpur, Osmania, Panjab, Patna, Poona, Punjabi, Rajasthan, Ravi-Shankar, Saugar, Saurashtra, Shivaji, Srivenkateswara, Utkal, Visva-Bharati. **Polish :** Delhi, **Protuguese :** Bombay (bachelor's and Master's). **Russian :** Agra, Aligarh, Allahabad, Andhra, Banaras, Baroda, Bombay, Calcutta, Delhi, Gauhati, Indore, Jadavpur, Karnatak, Kerala, Lucknow, Madras, Madurai, Mysore, Nagpur, Osmania, Panjab, Poona, Rajasthan, Shivaji, Utkal, Varanaseya Sanskrit Vish., Vikram. **Serbo-Croatian :** Delhi. **Spanish** Delhi, Utkal. **Swahili** : Delhi. **Syriac†:** Burdwan, Calcutta, Madras. **Tibetan :** Banaras, Calcutta, Gorakhpur, Lucknow, Panjab, Punjabi, Saugar, Varanaseya Sanskrit Vish., Visva-Bharati. **Thai :** Banaras. **Turkish :** Aligarh.

Geography† : Agra, Aligarh, Allahabad, A.P. Singh, Banaras, Baroda, Bhagalpur, Bombay, Burdwan, Calcutta, Delhi (Human Geography also), Dibrugarh, Gauhati, Gorakhpur, Gujarat, Indore, Jabalpur, Jamia Millia, Jiwaji, Jodhpur, Kanpur, Karnatak, Kurukshetra, Madras, Mysore, Nagpur, North Bengal, Osmania, Panjab, Patna, Poona, Punjabi, Rajasthan, Ranchi, Ravi Shankar, Sardar Patel, Saugar, Saurashtra, Shivaji, S. N. D. T., Udaipur, Utkal, Vikram, Visva-Bharati. Gartography — Diploma : Nagpur, Osmania. (Geographical, Panjab).

Geology† : Agra, Aligarh, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gujarat, I. I. T. Bombay, I. I. T. Kharagpur, Jabalpur, Jadavpur, Jammu, Karnatak, Kerala, Lucknow, Madras, Meerut, Mysore, Nagpur, Osmania, Panjab, Patna, Poona, Rajasthan, Ranchi, Ravi Shankar, Roorkee, Saugar, Shivaji, Srivenkateswara, Udaipur, Utkal, Vikram.

Geophysics† : (See also 'Technology' below). Andhra, Banaras, Kharagpur (also diploma), Osmania, Roorkee.

Gujarati†: Allahabad, Baroda, Bombay, Delhi, Gujarat, Gujarat Vidyapith, Sardar Patel, Saurashtra, S.N.D.T., South Gujarat, Diploma/Certificate : Agra, Allahabad, Delhi.

Hindi†: Cochin, Calicut, Gujarat Vidyapith, Guru Nanak and All Universities listed above under 'Economics' except Berhampur, Dibrugarh, Jadavpur, Sambalpur.

History†: Rabindra Bharati and All Universities listed above under 'Economics' except Haryana Agri., Panjab Agri.

Home Arts, Home Economics, Home Science : Bachelor's : Agra, Allahabad, Andhra,* Bangalore, Baroda*, Bhopal*, Bombay, Delhi*, G. B. Pant University of Agri., & Tech., Gujarat*, Indore, Jabalpur*, Madras*, Madurai, Mysore*, Nagpur*, Panjab*. Panjab Agri.*, Saugar, Sardar Patel, S.N.D.T. *, Udaipur. Master's : Srivenkateswara and Universities marked*. Diploma : Calcutta, G. B. Pant University of Agri. & Tech.

Indian Philosophy and Religion† : Banaras, Kurukshetra, Madras, Visva-Bharati. Diploma/Certificate : Allahabad, Banaras (Indian Philosophy & Culture).

Islamic Studies/Arab Culture & Civilization† : Aligarh, Bombay, Calcutta, Gujarat, Lucknow, Osmania.

Journalism: Bachelor's : Mysore, Nagpur, Osmania, Panjab. Master's : Calcutta, Mysore. Diploma/Certificate: Calcutta, Gauhati, Gujarat, Jabalpur, Madras, Panjab, Poona, Ravi Shankar, Shivaji.

Kannada† : Bangalore, Bombay, Karnatak, Madras, Mysore, Osmania, Poona, Shivaji, Diploma/Certificate : Annamalai, Bangalore, Karnatak, Madras.

Kashmiri : Certificate : Jammu.

Labour/Social Welfare : Degree/Diploma : Berhampur, Bhagalpur, Bombay, Calcutta, Gujarat, Panjab (industrial relations & labour welfare), Patna, Rajasthan, Ravi Shankar (industrial sociology, Labour Welfare & labour administration), Udaipur (labour law, labour welfare & personnel management), Utkal (social & labour welfare).

Law : Bachelor's : Agra*, Aligarh*, Allahabad*, Andhra*, A. P. Singh*, Banaras*, Bangalore*, Baroda*, Berhampur, Bhagalpur, Bhopal, Bihar*, Bombay*, Calcutta*, Delhi*, Dibrugarh*, Gauhati*, Gorakhpur*, Gujarat*, Himachal Pradesh*, Indore*, Jabalpur*, Jammu, Jiwaji *, Jodhpur*, Kanpur, Karnatak*, Kerala*, Kurukshetra, Lucknow* Madras*, Magadh, Marathwada*, Meerut*, Mysore*, Nagpur*, Osmania*, Panjab*, Patna*, Poona*, Punjabi, Rajasthan*, Ranchi, Ravi Shankar, Sambalpur*, Sardar Patel, Saugar*, Saurashtra*, Shivaji, South Gujarat*, Srivenkateswara, Udaipur*, Utkal*, Vikram*. **Master's:** universities marked* and Cochin. **Diploma:** Gorakhpur, Jodhpur (labour law), Gujarat (labour law & practice; and also taxation law & practice), Rajasthan (legislative res. & drafting; also taxation laws & practice), Shivaji (income tax, sales tax, labour laws, insurance & banking law, cooperation law, mercantile law), Udaipur (labour law, labour welfare & personnel management).

Library Science : Bachelor's : Aligarh, Andhra, A.P. Singh, Banaras, Baroda, Bombay, Burdwan, Delhi, Gauhati, Gujarat, Jadavpur, Jiwaji, Karnatak, Kerala, Kurukshetra, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Panjab, Poona, Punjabi, Rajasthan, Saugar, Shivaji, S.N.D.T., Vikram, **Master's:** Aligarh, Banaras, Bombay, Delhi, Karnatak, Madras, Vikram. **Diploma/Certificate :** Burdwan, Calcutta, Madras, Madurai, Shivaji, S.N.D.T., Srivenkateswara, Varanaseya Sans. Vish.

Linguistics†: Agra, Aligarh, Annamalai, Baroda, Bombay, Burdwan, Calcutta, Delhi, Gujarat, Gujarat Vidyapith, Jabalpur, Karnatak, Kerala, Kurukshetra, Lucknow, Mysore, Osmania, Poona, Ravi Shankar, Saugar, Shivaji, Visva-Bharati. **Diploma/Certificate:** Aligarh, Annamalai, Baroda (applied linguistics), Delhi, Karnatak, Kerala, Madurai, Osmania, Punjabi, Ravi Shankar (Phonetics).

Maithili† : Bihar, Patna.

Malayalam†: Calicut, Delhi, Kerala, Madras, **Diploma/Certificate:** Aligarh, Annamalai, Madras.

Marathi† : Agra, Allahabad, Baroda, Bombay, Gujarat, Indore, Jabalpur, Jiwaji, Karnatak, Lucknow, Marathwada, Nagpur, Osmania, Poona, Saugar, S.N.D.T., Vikram. Diploma/Certificate : Agra, Allahabad, Banaras, Delhi, Lucknow.

Marine Biology and Fisheries†: Calicut & University of Agri. Sciences (Bangalore) (Fisheries science), Annamalai, Cochin (oceanolography also, only master's), Kerala Diploma : Shivaji (Marine biology), University of Agri. Sciences, Bangalore (fish processing technology).

Mathematics† : Guru Nanak, Haryana Agri., Himachal Pradesh, I. I. T. Bombay, I. I. T. Delhi, I. I. T. Kanpur, Kharagpur, I. I. T. Madras, Jadavpur, Jamia Millia, Jammu, Panjab Agri., Roorkee and all universities listed above under Botany.

Mathematics applied† : (see also 'Computer Science, above) Master's : Andhra, Calcutta, Indore, Jabalpur, Roorkee.

Medicine : MBBS, MD and MS : Agra, Aligarh, Allahabad, Andhra, A. P. Singh, Banaras, Bangalore, Baroda, Bhagalpur (only MBBS), Bihar, Bombay, Calcutta, Delhi, Dibrugarh, Gauhati*, Gujarat, Indore, Jabalpur, Jiwaji, Kanpur, Karnatak, Kerala, Lucknow, Madras, Madurai, Marathwada, Meerut*, Mysore, Nagpur, North Bengal*, Osmania, Panjab, Patna, Poona, Punjabi, Rajasthan, Ranchi*, Ravi Shankar*, Sambalpur, Saurashtra, Shivaji, South Gujarat*, Srivenkateswara, Utkal. **Anaesthesiology/Anaesthetics :** Agra d, Aligarh d, Allahabad d, Andhra d, Banaras d m, Bangalore d, Baroda d m, Bombay m, Calcutta d, Delih d m, Dibrugarh d m, Gujarat d m, Kanpur d, Karnatak d m, Kerala d, Lucknow d, Madras d m, Madurai d, Marathwada d, Nagpur d, Osmania d, Panjab d m, Patna d, Poona d m, Post-graduate Research Inst. in Medicine m, Punjabi d, Rajasthan d m, Sambalpur d, Shivaji d, Utkal d. **Anatomy :** Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Calcutta m, Delhi m, Dibrugarh m, Gujarat m, Indore m, Karnatak m, Kerala m, Madras m, Marathwada m, Mysore m, Osmania m, Panjab m, Postgraduate Research Inst. in Medicine m, Rajasthan m, Sambalpur.m, Shivaji m, Srivenkateswara m. **Aviation Medicine :** Bangalore d. **Basic Medical : Sciences** Calcutta d. **Cardiology :** Bombay m, Calcutta d, Madras m, P. G. Research Inst. in Medicine m. **Cardiothoracic Surgery :** P. G. Research Inst. in Medicine M.Ch. **Clinical Pathology :** Aligarh d. **Child Health/Paediatrics :** Agra d, Aligarh d, Allahabad d, Andhra d m, Banaras d m, Bangalore d, Baroda d m, Bombay m, Calcutta d, Delhi d m, Dibrugarh d m, Gujarat d m, Indore d m, Jiwaji d, Kanpur d, Karnatak d, Kerala d m, Lucknow d, Madras d m, Madurai d m, (M.Ch), Marathwada d m, Nagpur d, Osmania d m, Panjab d, Patna d, Poona d m, Punjabi d, Rajasthan d m, Sambalpur d, Shivaji d m, Srivenkateswara d, Utkal d. **Dermatology:** Andhra d m, Bombay m, Calcutta d, Delhi d, Gujarat m, Madras d m, Panjab d. **Dietetics/Nutrition :** Baroda d, Calcutta d, Madras d, Osmania m, Panjab d. **Endocrinology :** P. G. Research Inst in Medicine m. E.N.T.— P. G. Research Inst. in Medicine m, **Forensic Medicine Science :** Bombay d, Mysore d m, Osmania d m, Sambalpur m. **General Medicine :** P. G. Research Inst. in Medicine m. **Gastro-Entrology :** P. G. Research Inst. in Medicine m. **Genito-Urinary Surgery :** P. G. Research Inst. in Medicine m. **Gynaecology/Obstetrics :** Agra d m, Aligarh d, Allahabad d, Andhra d m, Banaras m, Bangalore d, Baroda d m, Bihar d, Bombay m, Calcutta d m, Delhi d m, Dibrugarh d m, Gujarat d m, Indore m, Jiwaji d, Kanpur d, Karnatak d m, Kerala d m, Lucknow d, Madras d m, Madurai d, Marathwada m, Nagpur d m, Osmania d m, Panjab d m, Patna d, Poona d m, Postgraduate Research Inst. in Medicine m, Punjabi d m, Rajasthan Sambalpur m, Shivaji d m, Srivenkateswara d, Utkal d ; **Hygiene :** Bombay (doctorate). **Industrial Health :** Calcutta d, Gujarat d, **Maternity & Child-Welfare :** Calcutta d. **Medical Laboratory Technology :** Bombay d. **Medical Pathology & Bacteriology :** Andhra m, Panjab d, Rajasthan m. **Medical Radiodiagnosis/Radiotherapy :** Banaras d, Bombay d, Calcutta d, Delhi d, Poona d, **Medical Radiological Diagnosis :** Nagpur d, Rajasthan d, **Medical Radiological Therapy :** Rajasthan d. **Medical Radiology :** Aligarh d, Baroda d, Karnatak d, Madurai d, Panjab d, Patna d. **Medical Radiology & Electrology :** Agra d, Allahabad d, Baroda d, Bombay d, Gujarat d, Jiwaji d, Kanpur d, Kerala d, Lucknow d, Osmania d, Poona d., **Nephrology :** Madras m, P. G. Research Inst. in Medicine m. **Neurology :** Bombay m, Madras m. **Neurosurgery:** Bangalore m, Bombay m, Madras m, P. G. Research Inst. in Medicine m, **Ophthalmology/Ophthalmic Medicine & Surgery :** Agra d m, Aligarh d, Allahabad d, Andhra d m, Banaras d m, Bangalore d, Baroda d, Bombay m, Calcutta m, Delhi d m, Dibrugarh d m, Gujarat d m, Indore d m, Jiwaji d, Kanpur d, Karnatak d, Kerala d m, Lucknow d, Madras d m, Madurai d, Marathwada d m, Mysore d, Nagpur d, Osmania d m, Panjab d m, Patna d, Poona d m, P. G. Research Inst. in Medicine m, Punjabi d m, Rajasthan d m, Sambalpur m, Saurashtra d, Shivaji d m, Srivenkateswara d, Utkal d m, **Orthopaedics Surgery :** Agra d, Aligarh d, Allahabad d, Andhra m, Banaras d m, Baroda m, Bombay m, Delhi m, Gujarat m, Kanpur d, Karnatak d m, Kerala d m, Lucknow d, Madras d m, Madurai d, Poona d m, P. G. Research Inst. in Medicine m, Rajasthan d m, Sambalpur d, Shivaji d m, Utkal d, **Otorhinolaryngology/Laryngology & Otology :** Aligarh d, Allahabad d, Andhra d m, Banaras d m, Baroda d m, Bombay m, Calcutta d, Delhi d m, Dibrugarh d m, Gujarat d m, Indore m, Kanpur d, Karnatak dm, Kerala d, Lucknow d, Madras d m, Madurai d, Osmania d, Panjab d, Patna d, Poona m, Rajasthan d m, Sambalpur m, Shivaji d m, Srivenkateswara d, Utkal d. **Pathology :** Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Delhi m, Dibrugarh d m, Gujarat m, Indore m, Karnatak m, Kerala m, Madras m, Marathwada m, Mysore m, Osmania m, Panjab m, Poona m, P. G. Research Inst. in Medicine m, Punjabi m, Rajasthan m, Sambalpur m, Shivaji m, **Pathology Clinical :** Agra d, Allahabad d, Andhra d, Banaras d, Bangalore d, Baroda d, Bihar d, Indore d, Kanpur d, Karnatak d, Kerala d, Lucknow d, Madras d, Osmania d, Patna d, Poona d, Rajasthan d, Shivaji d, Srivenkateswara d, Utkal d. **Pharmacology :** Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Delhi m, Dibrugarh m, Gujarat m, Indore m, Karnatak m, Kerala m, Madras m, Marathwada m, Mysore m, Osmania m, Panjab m, Poona m, P. G. Research Inst. in Medicine m, Punjabi m, Rajasthan m, Sambalpur m, **Physiology :** Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Calcutta m, Delhi m, Dibrugarh m, Gujarat m, Indore m, Karnatak m, Kerala, Madras m, Marathwada m, Mysore m, Osmania m, Panjab m, Punjabi m, Rajasthan m, Sambalpur m, Shivaji m, Srivenkateswara m. **Plastic Surgery :** Bombay m, Madras m, Nagpur m, P. G. Research Inst. in Medicine m. **Preventive & Social Medicine :** Banaras m, Baroda m, Bombay m, Gujarat m, Indore m, Marathwada m, Poona m, Rajasthan m, Sambalpur m, Shivaji m. **Psychiatry :** P. G. Research Inst. in Medicine m. **Psychiatric Social Work :** Bangalore m. **Psychological Medicine :** Bangalore d m, Bombay d m, Calcutta d, Gujarat d, Karnatak d, Mysore d, Rajasthan d. ; **Psychology Clinical :** Banaras d, Kerala d. ; **Public Health :** Andhra d, Bombay d, Calcutta d, Gujarat d, Kerala d, Lucknow d, Marathwada d, Osmania (bachelor's), Patna d, Poona d, Rajasthan d, Shivaji d. **Radiation Medicine:** Bombay d, Delhi d. **Radiodiagnosis :** Gujarat m, Madras d m, P. G. Research Inst. in Medicine m, Sambalpur d, Utkal d. **Radiology/Radiological Medicine :** Agra m, Baroda m, Bombay m, Dibrugarh m, Gujarat m, Jiwaji m, d, Madras d, Panjab m, Poona m, Rajasthan m. **Radiotherapy :** Gujarat m, Karnatak d, Madras d m, P. G. Research Inst. in Medicine m, Utkal d. **Surgery :** P. G. Research Inst. in Medicine m. **Tubercular/Tuberculosis/Tuberculous Diseases :** Agra d, Andhra d, Baroda d, Bombay m, Calcutta d, Delhi d, Gujarat m, Indore d, Karnatak d, Lucknow d, Madras d, Nagpur d, Osmania d, Patna d, Poona m, Rajasthan d, Sambalpur d, Utkal d. **Venereology/Venereal Diseases :** Agra d, Andhra d, Calcutta d, Madras d m, Osmania d, Sambalpur d. **Venereology & Dermatology :** Baroda d, Bombay d, Gujarat d, Karnatak d, Poona d, Rajasthan d, Utkal d.

Medicine Ayurvedic/Indian : Bachelor's : Andhra, Bangalore, Gujarat, Indore, Jabalpur, Jammu, Jiwaji, Karnatak, Kerala, Madras, Madurai, Marathwada, Mysore, Nagpur, Osmania, Poona, Rajasthan, Ravi Shankar, Saugar. **Dyam ;** Banaras.

Medicine Unani : Bachelor's : Aligarh, Osmania.

Metallurgy/Metallurgical Engineering : Bachelor's : Banaras*, Baroda, Burdwan*, Calcutta*, I. I. T. Bombay*, I. I. T. Kanpur*, Kharagpur*, I. I. T. Madras*, Jadavpur, Madras, Nagpur, Panjab, Poona*, Rajasthan, Ravi Shankar, Roorkee*, Sambalpur*, Master's : Andhra (ore-dressing), Ranchi and Universities marked*.

Metheorology : Master's : Andhra.

Microbiology†: Annamalai, Banaras, Baroda, Bombay, Delhi, Gujarat, Haryana Agri., Karnatak, Madras (MD), Panjab, Panjab Agri. P. G. Research Inst. in Medicine, Rajasthan, Saurashtra, South Gujarat.

Military Science/Studies†: Agra, Allahabad (defence studies), Gorakhpur, Jiwaji, Kurukshetra, Lucknow, Meerut, Panjab, Poona, Punjabi.

Museology : Diploma : Banaras, Baroda, Calcutta.

Music : Bachelor's : Annamalai, Banaras, Baroda, Calcutta, Delhi, Indore, Kerala, Madurai, Mysore, Rabindra Bharati (also dance), S. N. D. T., Srivenkateswara, Visva-Bharati. **Master's**: Banaras, Baroda, Delhi, Indira Kala Sangit (also dance), Indore, Jabalpur, Kerala, Madras, Mysore, Nagpur, Panjab, Rabindra Bharati (also dance), Rajasthan, Srivenkateswara. **Diploma/Certificate:** Agra (also Indian music), Allahabad (Indian Music), Banaras, Baroda, Bombay (Hindustani vocal classical), Burdwan, Delhi (Hindustani music or Karnatak music), Gujarat (also dancing), Indira Kala Sangit (also dance), Madras, Patna, Poona, Punjabi, Rabindra Bharati (also dance), Saugar (military music), Saurashtra, Varanaseya Sans. Vish., Visva-Bharati (music & dance & also vocal music).

Naval Architecture : Bachelor's : Kharagpur.

Nursing : Bachelor's : Bombay, Delhi, Gujarat, Indore, Kerala, Madras, Osmania, Panjab, Poona, Rajasthan, S.N.D.T., Master's : Delhi, Madras.

Occupational Therapy : Bachelor's : Bombay, Nagpur.

Oceanography : Master's : Andhra, Kerala.

Operational Research : Master's : Delhi.

Oriental Learning : Bachelor's (BOL) Bihar, Osmania, Sambalpur, Utkal. Master's (MOL) : Bihar, Rajasthan. Diploma : Nagpur Osmania.

Oriya† : Berhampur, Burdwan, Sambalpur, Utkal, Visva Bharati. Diploma/Certificate : Visva-Bharati.

Painting : Bachelor's : Indira Kala Sangit, Meerut, S.N.D.T., Visva-Bharati. Master's : Agra, Indira Kala Sangit, Meerut, Rajasthan, Udaipur, Vikram. Diploma/ Certificate : Allahabad, Annamalai, Banaras, Baroda, Gujarat, Indira Kala Sangit, Rabindra Bharati.

Pali† : Banaras, Baroda, Bombay, Burdwan, Calcutta, Gujarat, Jabalpur, Kurukshetra, Marathwada, Nagpur, Patna, Poona, Shivaji, Visva-Bharati. Diploma/Certificate : Lucknow, Visva-Bharati.

Panjabi† : Delhi, Gauhati, Guru Nanak, Kurukshetra, Panjab, Punjabi, Diploma/Certificate : Allahabad, Jammu, Punjabi.

Pharmacy : Bachelor's : Andhra*, Banaras*, Bangalore, Birla*, Bombay*, Gujarat*, Jadavpur*, Jodhpur, Kerala, Madras*, Madurai, Mysore*, Nagpur*, Panjab*, Saugar*, Shivaji, Master's Universities marked*. Diploma/Certificate : Gujarat, Panjab, Poona.

Philosophy†: Gujarat Vidyapith, Rabindra Bharati and all universities listed above under 'Economics' except Berhampur, Birla Himachal Pradesh, South Gujarat.

Physical Education : Bachelor's : Bangalore, Jiwaji, Kalyani, Madras, Madurai, Panjab, Punjabi, Ravi Shankar, Shivaji, **Master's :** Jiwaji, Madras, Panjab, Punjabi, **Diploma:** Andhra, Banaras, Bangalore, Gujarat, Jabalpur, Jiwaji, Kalyani, Lucknow, Madras, Nagpur, Osmania, Punjabi, Shivaji (also cert.).

Physics†: Calicut, Cochine, Himachal Pradesh, Indian Inst. of Science, I.I.T. Bombay, I.I.T. Kanpur, I.I.T. Delhi, Kharagpur, I.I.T. Madras, Jadavpur, Jammu, Roorkee and all Univ. listed above under 'Botany' except Haryana Agri.

Physiotherapy : Bachelor's : Baroda, Bombay (Physical therapy).

Planning : Master's : Calcutta, Planning, City & Regional. Master's : Kharagpur ; Planning, Town & Regional. Diploma : Calcutta; Planning, Town & Country. Bachelor's: Madras.

Political Science† : All universities listed above under 'Economics' except Haryana Agri., Panjab Agri. and South Gujarat).

Prakrit† : Allahabad, Baroda, Bihar, Gujarat, Jabalpur, Kurukshetra, Lucknow, Nagpur, Visva-Bharati. Diploma : Mysore.

Psychology† : Guru Nanak and all Universities listed above under 'Economics' except Berhampur, Birla, Dibrugarh, Haryana Agri., Himachal Pradesh, Jadavpur, Jammu, Jiwaji, Panjab Agril., Sambalpur, Varanaseya Sans. Vish. and Visva-Bharati.

Public Administration†: Aligarh, Andhra, Karnatak, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Panjab, Patna, Poona, Punjabi, Rajasthan, Saugar, South Gujarat, Utkal. Diploma : Aligarh, Gorakhpur, Lucknow, Osmania, Patna. **Local Self Govt.** Diploma : Nagpur.

Sanitary Science : Bachelor's : Madras.

Sanskrit† : Rabindra Bharati and all universities listed above under 'Economics' except Berhampur, Haryana Agri., Panjab Agri. & Sambalpur.

Sculpture : Bachelor's : Visva-Bharati-Diploma : Banaras, Baroda Gujarat.

Sindhi† : Bombay, Gujarat, Panjab, Poona, Punjabi.

Social Service: Diploma/Certificate : Allahabad, Kerala, Madras.

Social Work : Bachelor's : Bombay, Kashi Vidypaith, Mysore, Visva-Bharati. Master's : Agra, Andhra, Baroda, Bombay, Delhi, Gujarat Vidyapith, Delhi, Indore, Karnatak, Kashi Vidyapith, Kerala, Lucknow, Madras, Mysore, Shivaji, Udaipur. Diploma/Certificate : Calcutta, Nagpur, Poona.

Sociology†: Agra, Aligarh, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Bhagalpur, Bhopal, Bombay, Calcutta, Delhi, Dibrugarh, Gorakhpur, Gujarat, Haryana Agri., Indore, Jabalpur, Jiwaji, Jodhpur, Kalyani, Kanpur, Kashi Vidyapith, Kerala, Lucknow, Madras, Marathwada, Meerut, Mysore, Nagpur, Osmania, Panjab, Panjab Agri., Patna, Poona, Punjabi, Rajasthan, Ravi Shankar, Sardar Patel, Saugar, Saurashtra, Shivaji, S.N.D.T., South Gujarat, Srivenkateswara, Udaipur, Utkal, Vikram, Visva-Bharati. **Applied Sociology :** Kashi Vidyapith.

Statistics†: Agra, Aligarh, Allahabad, Andhra, Annamalai, Banaras, Bangalore, Baroda, Bhagalpur, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, G. B. Pant University of Agri. & Tech., Gujarat, Guru Nanak, Haryana, Agri. I.I.T., Kanpur, Indore, Kanpur, Karnatak, Kerala, Lucknow, Madras, Meerut, Mysore, Nagpur, Osmania, Panjab, Panjab Agri., Patna, Poona, Rajasthan, Sardar Patel, Shivaji, South Gujarat, Srivenkateswara, Utkal, Vikram. **Diploma/Certificate :** Aligarh, Andhra (applied statistics), Gauhati, Gujarat, Karnatak, Kurukshetra, Madras, Panjab (also economic statistics), Punjabi. **Applied Statistics (Econometrics) :** Master's : South Gujarat.

Tamil† : Allahabad, Annamalai, Banaras, Delhi, Kerala, Lucknow, Madras, Madurai, Osmania, Panjab, Punjabi, Srivenkateswara, Utkal. Diploma/Certificate : Agra, Aligarh, Allahabad, Annamalai (teaching Tamil), Banaras, Lucknow, Madras, Panjab, Udaipur.

Technology : (see also 'Engineering' above). Bachelor's: **ceramic** technology—Calcutta, Osmania. **Food** technology : Andhra, Bombay, Jadavpur. **Intermediates and dyes, pigments, paints and varnishes, plastics**—Bombay. **Leather** technology — Calcutta, Madras. **Oils fats and waxes,** oil technology — Bombay, Nagpur, Osmania. **Paints and varnishes** — Osmania. **pharmaceuticals and fine chemicals** — Bombay, Osmania. **Plastics & rubber** technology — Calcutta, **Silicate** technology — Banaras. **Textile chemistry** — Bombay. **Textiles**/Textile technology — Bangalore, Baroda, Bombay, Burdwan, Calcutta, I. I. T. Delhi, Kanpur, Madras, Panjab. **Master's : applied chemistry** — Calcutta, Indore, Jabalpur, Kerala. **Applied geology** — Andhra, Banaras, Baroda, Dibrugarh, Jadavpur, Kharagpur, Nagpur, Osmania, Rajasthan, Ravi Shankar, Roorkee, Saugar. **Applied Physics** — Andhra, Calcutta, Indore, Jabalpur : **ceramic engin.**/ceramic† : Banaras, Osmania. **Fermentation** Technology : Bombay. **Fibre Science** & technology : I. I. T., Delhi, **Food**/Food technology : Bombay, Jadavpur, Mysore. **Geophysics :** Andhra, Kharagpur. **Glass :** Banaras. **Industrial electronics :** Kharagpur. **Intermediates & dyes :** Bombay. **Leather** technology : Madras. **Oils, fats & waxes :** Bombay, Osmania. **Petro-chemicals :** Kharagpur. **Pharmaceuticals & fine chemicals :** Bombay, Osmania. **Photogrammetric** technology : Roorkee. **Pigments, Paints & varnishes :** Bombay. **Plastics :** Bombay. **Radar :** technology : I. I. T., Madras. **Radio-Physics & electronics :** Calcutta. **Silicate** technology : Banaras. Technology of **furnaces & refractories :** Madras, Osmania. Technology of **paints & varnishes :** Osmania. Technology of **rubber :** Bombay. **Textile Chemistry :** Bombay. **Textile**/Textile technology : Bombay, I. I. T., Delhi, Madras, Mysore, Panjab.

Telugu†: Aligarh, Andhra, Annamalai, Madras, Osmania, Srivenkateswara, Utkal. Diploma/Certificate : Agra, Aligarh, Allahabad, Annamalai, Banaras, Madras.

Theology : (see also 'Islamic studies' and 'Indian Philosophy and Religion') Diploma : Aligarh.

Urdu†: Agra, Aligarh, Annamalai, Allahabad, Banaras, Baroda, Bhopal, Bihar, Bombay, Bhurdwan, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Jabalpur, Jammu, Karnatak, Kerala, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Panjab, Patna, Poona, Rajasthan, Ravi Shankar, Saugar, Shivaji, Srivenkateswara, Udaipur, Utkal, Vikram. Diploma/Certificate : Aligarh, Allahabad, Delhi, Jammu, Lucknow, Madras, Visva-Bharati.

Veterinary Science : Bachelor's : Agra*, Agri. Sciences (Bangalore), Assam. Agri.*, Calcutta*, G. B. Pant University of Agri. & Tech.*, Haryana Agri.*, J. L. Nehru Krishi Vish *, Kerala*, Madras*, Magadh, Panjab Agri.*, Punjab Rao Krishi*, Ranchi, Sardar Patel*, Udaipur*. Master's Universities : Marked*. Diploma : Assam Agri.

Yogic Science : Diploma : Saugar.

Zoology†: All universities listed above under ' Botany ' except Haryana Agri. & South Gujarat. Zoo-Physiology Master's : Kerala.

DENTAL COLLEGES

Dental Wing, Osmania Medical College, Hyderabad, Andhra Pradesh ; Dental College and Hospital, Patna, Bihar ; Government Dental College and Hospital, Ahmedabad, Gujarat ; Dental Wing, Government Medical College, Trivandrum, Kerala ; College of Dentistry, Indore, Madhya Pradesh ; Nair Hospital Dental College, Bombay, Maharashtra ; Government Dental College and Hospital, Bombay, Maharashtra ; Government Dental College and Hospital, Nagpur, Maharashtra ; Dental College and Hospital, Bangalore, Mysore ; College of Dental Surgery, Kasturba Medical College, Manipal, South Kanara, Mysore ; Punjab Govt. Dental College and Hospital, Amritsar, Punjab ; Dental College, Patiala, Punjab ; Dental Wing, Medical College, Madras, Tamil Nadu ; Dental Wing, K. G. Medical College, Lucknow, Uttar Pradesh and Dr. R. Ahmed Dental College and Hospital, Calcutta, West Bengal.

Specialised Studies: The Dental Council of India has prescribed nine specialised subjects for Post-graduate education in dentistry. They are (*i*) Prosthetic Dentistry, (*ii*) Oral Surgery, (*iii*) Operative Dentistry, (*iv*) Orthodontia, (*v*) Periodontia, (*vi*) Oral Diagnosis and Dental Radiology, (*vii*) Dental Pathology and Bacteriology, (*viii*) Pedodontia and Preventive Dentistry and (*ix*) Public Health Dentistry.

Departments in these specialised fields exist in the following Dental Institutions :—

Government Dental College and Hospital, Ahmedabad, Gujarat — Operative Dentistry, Prosthetic Dentistry, Periodontia, Oral Pathology & Bacteriology, Oral Diagnosis and Dental Radiology, Orthodontia and Oral Surgery.

Dental College, Trivandrum, Kerala — Operative Dentistry and Prosthetic Dentistry.

Government Dental College and Hospital, Bombay, Maharashtra — Prosthetic Dentistry, Periodontia, Orthodontia, Dental Pathology and Bacteriology, Oral Surgery, Operative Dentistry and Dental Radiology.

Nair Hospital Dental College, Bombay, Maharashtra — Prosthetic Dentistry, Periodontia, Operative Dentistry, Orthodontia, Dental Pathology & Bacteriology, Dental Radiology and Oral Surgery.

Armed Forces Medical College, Poona, Maharashtra — Prosthetic Dentistry.

Dental College, Bangalore, Mysore — Orthodontia, Oral Surgery, Periodontia, Oral Diagnosis & Dental Radiology and Public Health Dentistry.

Punjab Governmental Dental College and Hospital, Amritsar, Punjab — Dental Prosthetics, Crown & Bridge Work and Pedodontia and Preventive Dentistry.

Dental Wing, Madras Medical College, Madras, Tamil Nadu — Oral Surgery and Periodontology.

Dental Wing, K. G. Medical College, Lucknow, Uttar Pradesh — Prosthedontics, Periodontics, Orthodontics, Oral Surgery & Preventive Dentistry.

Facilities for training of **Dental Mechanics** and **Dental Hygienists** are available at : (1) Government Dental College and Hospital, Bombay, Maharashtra ; (2) Dental Wing, Madras Medical College, Madras, Tamil Nadu ; (3) Dental College and Hospital, Bangalore, Mysore ; (4) Dental Wing, K. G. Medical College, Lucknow, Uttar Pradesh ; (5) Dental College, Trivandrum, Kerala and some Centres of Armed Forces for army personnel only.

PHARMACY COLLEGES

The names of the 46 institutions which impart pharmacy courses are given below :—

Andhra Pradesh: Andhra University Colleges of Science & Technology, Department of Pharmacy, Waltair (B. Pharm. ; M. Pharm., Ph.D.) ; Government Polytechnic for Women, Kakinada (*D. Pharm.) ; Kamala Nehru Girls Polytechnic, Mukram Jahi Market, Hyderabad (*D Pharm.) ; Government Polytechnic, Hyderabad (*D. Pharm.) ; Government Polytechnic, Visakhapatnam (D. Pharm.) ; Government Polytechnic, Tirupati (*D. Pharm.).

Assam : Assam Medical College, Dibrugarh (*D.Pharm.).

Bihar : Pharmacy School, Patna (*D. Pharm.); Institute of Pharmacy, Patna (D. Pharm.).

Delhi : Pusa Polytechnic, Pusa, New Delhi (*D. Pharm.).

Goa : Goa College of Pharmacy, Panaji (*D. Pharm., B. Pharm.).

Gujarat : L. M. College of Pharmacy, Navrangpura, Ahmedabad (*D. Pharm ; Inter Pharm ; *B. Pharm., M. Pharm., Ph.D.) ; M. N. College of Pharmacy, Cambay (D. Pharm.; B. Pharm.).

Kerala : Maharaja's College, Ernakulam (M. Sc. Pharmaceutical Chemistry) ; Medical College, Calicut (*D. Pharm.); Medical College, Trivandrum (*B. Pharm.).

Madhya Pradesh : Pharmacy Department, University of Saugar, Saugar (*B. Pharm.); S. V. Government Polytechnic, Bhopal (*D. Pharm.).

Maharashtra : Bombay College of Pharmacy, Kalina, Bombay (B. Pharm.); Government Polytechnic, Karad (*D. Pharm.); College of Engineering, Karad (B. Pharm.); Government Polytechnic, Amravati (*D. Pharm.); Department of Chemical Technology, Bombay-19, (B. Pharm.); Nagpur University, Nagpur (B. Pharm.); Armed Forces Medical College, Poona (*Dispenser's Course); Poona College of Pharmacy, Poona (*D. Pharm.) ; College of Pharmacy, Ulhasnagar (D. Pharm ; B. Pharm.).

Mysore : Government College of Pharmacy, Bangalore (*D. Pharm., *B. Pharm.); College of Pharmaceutical Sciences, Shimoga (*D. Pharm.); The Kasturba Medical College, Manipal (*D. Pharm., *B. Pharm.); V. L. College of Pharmacy, Raichur (*D. Pharm.); School of Pharmacy, Belgaum (*D. Pharm.) ; Medical College, Mysore (D. Pharm.).

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* Approved by the Pharmacy Council of India for qualifying for registration as a pharmacist under the Pharmacy Act, 1948.

† Colleges imparting construction for various courses except for M.B.B.S.

Orissa: S. C. B. Medical College, Cuttack (*D. Pharm.).

Punjab and Haryana: Government Medical College, Patiala (*D. Pharm. and Dressers' Course); Medical College, Amritsar (*D. Pharm. and Dressers' Course); Rohtak Medical College, Rohtak, Haryana (*D. Pharm.); Govt. Polytechnic for Women, Ambala (*D. Pharm.); Govt. Polytechnic for Women Chandigarh (*D. Pharm.); Govt. Polytechnic for Women, Jullunder (D. Pharm.), Department of Pharmacy, Punjab University, Chandigarh (*B. Pharm.).

Rajasthan: Birla Institute of Technology and Science, Pilani (*B. Pharm. (Hons.), B. Pharm. (Tech)); S. M. S. Medical College, Jaipur (M. Pharm.)

Tamil Nadu: Madras Medical College, Park Town, Madras (*D. Pharm., *B. Pharm.); Madurai Medical College, Madurai (*D. Pharm., *B. Pharm.); Christian Medical College, Vellore (*D. Pharm.).

Uttar Pradesh: Institute of Technology, Banaras Hindu University, Varanasi (*B. Pharm.); G. S. V. M. Medical College, Kanpur (*D. Pharm.); Motilal Nehru Medical College, Allahabad (D. Pharm).

West Bengal: Pharmacy Training Centre, Jalpaiguri (*D. Pharm.); Jadvapur University, Calcutta (B. Pharm.).

MEDICAL COLLEGES

The list of the 101 medical colleges offering M.B.B.S. State-wise in the country in 1971-72 is as follows:—

Andhra Pradesh: (1) Andhra University, Waltair: Andhra Medical College, Visakhapatnam; Guntur Medical College, Guntur; Rangaraya Medical College, Kakinada. **(2) Osmanabad University, Hyderabad:** Osmania Medical College, Hyderabad; Gandhi Medical College, Hyderabad; Kakatiya Medical College, Warangal. **(3) S. V. University, Tirupati:** Kurnool Medical College, Kurnool; S. V. Medical College, Tirupati.

Assam: (1) Gauhati University, Gauhati: Gauhati Medical College, Gauhati; Silchar Medical College, Ghungoor. **(2) Dibrugarh University, Dibrugarh:** Assam Medical College, Dibrugarh.

Bihar: (1) Bihar University, Muzaffarpur: Darbhanga Medical College, Laherisarai. **(2) Bhagalpur University, Bhagalpur:** Bhagalpur Medical College, Bhagalpur. **(3) Magadh University, Magadh:** Patliputra Medical College, Patna; Nalanda Medical College, Patna; Magadh Medical College, Gaya. **(4) Patna University, Patna:** P. W. Medical College, Patna. **(5) Ranchi University, Ranchi:** Rajendra Medical College, Ranchi; M. G. M. Medical College, Jamashedpur; Post-graduate Training Centre† Hospital for mental diseases, Ranchi.

Delhi: (1) Delhi University, Delhi: Lady Hardinge Medical College, New Delhi; Maulana Azad Medical College, New Delhi; University Medical College, Delhi; All India Institute of Medical Sciences, New Delhi; Vallabhbhai Patel Chest Institute,† Delhi.

Gujarat: (1) Gujarat University, Ahmedabad: B. J. Medical College, Ahmedabad; Municipal Medical College, Ahmedabad. **(2) M. S. University of Baroda:** Medical College, Vadodara. **(3) Saurashtra University, Rajkot:** M. P. Shah Medical College, Jamnagar.

(4) South Gujarat University, Surat: Government Medical College, Surat.

Jammu and Kashmir: (1) Kashmir University, Srinagar: Government Medical College, Srinagar.

Kerala: (1) Kerala University, Trivandrum: Medical College, Trivandrum; Medical College, Kottayam; T. D. Medical College, Alleppey. **(2) Calicut University, Calicut:** Medical College, Calicut.

Madras and Pondicherry: (1) Madras University, Madras: Medical College, Madras; Stanley Medical College, Madras; Christian Medical College, Vellore; Kilpauk Medical College, Kilpauk; Thanjavur Medical College, Thanjavur; Medical College, Chingleput; Medical College, Coimbatore; J. L. Institute of P/G Medical Education and Research, Pondicherry. **(2) Madurai University, Madurai:** Madurai Medical College, Madurai; Medical College, Tirunelveli; Institute of Rural Health and Family Planning†, Gandhigram.

Madhya Pradesh: (1) Jabalpur University, Jabalpur: Medical College, Jabalpur. **(2) Jiwaji University, Gwalior:** G. R. Medical College, Gwalior. **(3) Indore University, Indore:** M. G. M. Medical College, Indore. **(4) Bhopal University, Bhopal:** Gandhi Medical College, Bhopal. **(5) Ravishankar University, Raipur;** J. L. N. Medical College, Raipur. **(6) A. P. Singh University, Rewa:** S. S. Medical College, Rewa.

Maharashtra: (1) Bombay University, Bombay: Grant Medical College, Bombay; Seth G. S. Medical College, Bombay; T. N. Medical College, Bombay; L. T. M. Medical College, Sion, Bombay; Goa Medical College, Panaji. **(2) Poona University, Poona:** B. J. Medical College, Poona; Armed Forces Medical College, Poona. **(3) Shivaji University, Kolhapur:** Miraj Medical College, Miraj; Dr. V. M. Medical College, Sholapur. **(4) Marathwada University, Aurangabad:** Government Medical College, Aurangabad. **(5) Nagpur University, Nagpur:** Medical College, Nagpur; Corp. Medical College, Nagpur; M. G. College of Medical Sciences, Sevagram, Wardha.

Mysore: (1) Mysore University, Mysore: Mysore Medical College, Mysore; Kasturba Medical College, Manipal; J. J. M. Medical College, Davangere. **(2) Bangalore University, Bangalore:** Bangalore Medical College, Bangalore; St. John's Medical College, Bangalore. All India Institute of Mental Health†, Bangalore; School of Aviation and Medicine†, Bangalore. **(3) Karnatak University, Dharwar:** Karnatak Medical College, Hubli; J. L. N. Medical College, Belgaum; Medical College, Gulbarga; Medical College, Bellary.

Orissa: (1) Utkal University, Bhubaneswar: S. C. B. Medical College, Cuttack. **(2) Sambalpur University, Sambalpur:** V. S. S. Medical College, Burla. **(3) Berhampur University, Berhampur:** M. K. C. G. Medical College, Berhampur.

Punjab and Haryana: (1) Punjabi University, Patiala: Government Medical College, Patiala. **(2) Punjab University, Chandigarh:** Christian Medical College, Ludhiana; Dayanand Medical College, Ludhiana; Government Medical College, Rohtak; Institute of P. G. Medical Education & Research, Chandigarh. **(3) Guru Nanak University, Amritsar:** Medical College, Amritsar.

Himachal Pradesh: (1) Himachal Pradesh University, Simla: H. P. Medical College, Simla.

Rajasthan: (1) Rajasthan University, Jaipur; S. M. S. Medical College, Jaipur; S. P. Medical College, Bikaner; R. N. T. Medical College, Udaipur; Dr. S. N. Medical College, Jodhpur; J. L. N. Medical College, Ajmer.

Uttar Pradesh: (1) Agra University, Agra: S. N. Medical College, Agra. **(2) Allahabad University, Allahabad:** M. L. N. Medical College, Allahabad. **(3) Aligarh Muslim University, Aligarh:** J. L. N. Medical College, Aligarh. **(4) Banaras Hindu University, Varanasi:** Institute of Medical Sciences, Varanasi. **(5) Kanpur University, Kanpur:** G. S. V. M. Medical

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† Colleges imparting instruction for various courses except for M.B.B.S.

College, Kanpur; M. L. Bai Medical College, Jhansi; Nehru Institute of Ophthalmology and Research Eye Hospital†, Sitapur. **(6) Lucknow University, Lucknow:** K. G. Medical College, Lucknow. **(7) Meerut University, Meerut:** L. L. R. M. Medical College, Meerut.

West Bengal: (1) Calcutta University, Calcutta: Medical College, Calcutta; R. G. Kar Medical College, Calcutta; N. R. S. Medical College, Calcutta; C. N. Medical College, Calcutta; B. S. Medical College, Bankura; All India Institute of Hygiene & Public Health†, Calcutta; C. B. S. College of Obstetrics and Gynaecology and Child Health†, Calcutta; School of Tropical Medicine†, Calcutta; Institute of Child Health†, Calcutta; University College of Medicine†, Calcutta. **(2) North Bengal University, Raja-Rammohanpur:** North Bengal University Medical College, Raja-Rammohanpur. **(3) Burdwan University, Burdwan:** University Medical College, Burdwan.

YOGA INSTITUTES

Bihar: Institute of Yoga Research (Bihar Government) Dept. of Cardio-Vascular Diseases, The Prince of Wales Medical College Hospital, Patna 800001.

Gujarat: Yoga Sadhan Ashram, 16, Pritamnagar, Ahmedabad 390006.

Madhya Pradesh: Saugar University, Dept. of Yogic studies, Saugar 470001.

Maharashtra: Yoga Institute, Santa Cruz (East), Bombay 400055.
Yoga Mahavidyalaya, Khatri Estate, Falkland Rd., Bombay 400008.
Kaivalyadhama (Ishwardas Chunilal Yogic Health Centre), N. Subash Rd., Bombay 400002.
Yoga Education Centre, Hindi Vidya Bhavan, 79, Marine Drive, Bombay 400020.
G. S. College of Yoga & Cultural Synthesis, Kaivalyadhama, Lonavala, Poona Dist.

New Delhi: Yogashram, Mandir Lane, Behind Lakshmi Narayan Temple, New Delhi 110001.
Vishwayatan Yogashram, Alexandra Place, Opp. Gole Post Office, New Delhi 110001.

Tamil Nadu: All India Manava Sevak Samaj, 39, Sullivan Garden Rd., Mylapore, Madras 600004.
Kriya Baba Yoga Rehabilitation Centre, 1-A, Arulananda Mudali St., Madras 600004.
Prof. T. Krishnamacharya's Yoga Institute, 9, West Circular Rd., Mandavalli Pakkam, Madras 400028.
Yoga Centre, Arya Samaj, 107, Lloyds Rd., Madras 600006.

RESEARCH

THOUGH comprehensive data on the amounts spent on research and development is not readily available, a survey conducted by the Industrial Credit and Investment Corporation of India, shows the expenditure to be around 0·2 per cent of the gross national product in Latin America; between 0·1 and 0·5 per cent in Asia; and less than 0·1 per cent in Africa.

India is estimated to be spending a little more than 0·4 per cent on research and development.

Comparable figures for developed countries are: Soviet Union 4·2 per cent; United States 30·2 per cent and most of the European countries between 1 and 2 per cent of the G.N.P.

India is among the few developing countries with relatively long experience in indigenous research. In the post-independence period (1947), an elaborate organisational structure, supported by the State, has been created.

Many private industrial firms have become research conscious, and are together spending millions of rupees in research. A report of the Committee on Science and Technology says the total expenditure for scientific research and development under Central, State and private sectors in the country increased from Rs. 270 million in 1958-59 to about Rs. 1,690 million in 1970-71. Of the estimated total expenditure of Rs. 2,150 million on industrial R and D in 1971–72, the private sector's contribution is about Rs. 175 million. The National Committee on Science and Technology has proposed a levy of a R and D cess which is likely to generate resources of about Rs. 3,000 million in the Fifth Plan period. The money will be disbursed to companies in the public and the private sectors for R and D projects.

In terms of G.N.P. it has increased from 0·21 per cent to 0·43 per cent and is expected to rise to about 0·5 per cent at the end of the Fourth Plan.

In the overall financial expenditure the contribution of the private sector is quite small. It is estimated to have spent Rs. 80 million in 1969–70 and State undertakings Rs. 50 million. The brunt of the burden is borne by the Central Government.

Viewed against the background of annual production amounting to Rs. 60,000 million the expenditure of Rs. 130 million on Research and Development constitutes about 0·2 per cent.

ESTIMATED R & D EXPENDITURE IN CENTRAL, STATE AND PRIVATE SECTORS

(Rs. in million)

	1968-69	1969-70	1970-71
(*a*) Central Sector (including universities)	1,096·0	1,234·0	1,448·9
(*b*) State Sector ..	119·9	122·2	125·8
(*c*) Private Sector ..	98·5	106·3	112·2
Total	1,314·4	1,462·5	1,686·9

Note: Out of 520 R & D Institutions/Units under the State Governments, who were asked to supply data, only 232 (i.e. about 45 per cent have furnished the information). The figures for 1968-69, 1969-70 and 1970-71 have been estimated, proportionately.

Data for the private sector is incomplete. This also includes 50 per cent of the expenditure of Cooperative Research Associations under CSIR, the remaining 50 per cent being grant from the CSIR, which is covered in CSIR expenditure.

National Research Development Corporation

(See under All India Corporations)

RESEARCH BODIES

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH: Rafi Marg, New Delhi-110001.

CSIR functions as a part of the Ministry of Education and Social Welfare. At present there are 30 research establishments under it which include national laboratories, institutes, organisations and regional laboratories. It also has two science museums and two information centres. In addition, there are constituent technical divisions at the Headquarters, *viz.*, the Scientific and Technical Personnel Division, the Research Co-ordination and Industrial Liaison Division, the Research Survey and Planning Division, the Patent Unit, the Process Evaluation Cell and the Grant-in-Aid Unit.

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† Colleges imparting instruction for various courses except for M.B.B.S.

National Register maintained by the Division of Scientific and Technical Personnel, CSIR, is a clearing house of information regarding availability and utilisation of Indian scientists, engineers, technologists, medical personnel and social scientists in India and abroad. Based on the data in the Register and on independent surveys, the Division carries out man-power research on the general and special characteristics of scientific and technical personnel, and their utilisation or wastage. These studies help formulation of scientific personnel policies, recruitment, and man-power planning.

NATIONAL LABORATORIES/INSTITUTES

Aeronautical Laboratory, National, *P.O. Bag No.* 4, *Kodihalli, Bangalore* 560017—Scientific investigations of the problems of flight with a view to their practical application to the design, construction and operation of aircrafts in India.

Botanic Gardens, National, *Rana Pratap Marg, Lucknow* 226000—Collection and large-scale cultivation of economic and medicinal plants of industrial importance.

Building Research Institute, Central, *Roorkee, Uttar Pradesh*—Engineering and structural aspects of building and human comforts in relation to buildings.

Chemical Laboratory, National, *Pashan, Pune*—Fundamental and applied research covering the whole field of chemistry for which other specialised institutes have not been set up. The National Collection of Type Cultures is housed in the Laboratory.

Drug Research Institute, Central, *Chattar Manzil Palace, P.O. Box* 173, *Lucknow* 226000—All aspects of drug research including evaluation & standardisation of crude drugs, discovery of substitutes for pharmacopoeial drugs and plants, pharmaceutical and synthetic chemicals, bio-chemistry and biophysics, infection, immunisation, pharmacology, chemotherapy & experimental medicine.

Electro-Chemical Research Institute, Central, *Karaikudi* 623003, *Tamil Nadu*—Research on different aspects of electro-chemistry, including electro-metallurgy, electro-deposition and allied problems. The institute has two testing centres at Madras and Ramanathapuram.

Electronics Engineering Research Institute, Central, *Pilani-Rajasthan*—Design and construction of electronic equipments and components and test equipments.

Experimental Medicine, Indian Institute of, 4 *Raja Subodh Mullick Road, Calcutta*-700032—Research in various aspects of biochemistry as applied to medicine, bacteriology, etc.

Food Technological Research Institute, Central, *Chaluvamba Mansion, V. V. Mohalla P.O., Mysore* 570002 —Food processing and conservation and all aspects of fruit technology. Regional Fruit and Vegetable Preservation Stations at Trichur, Nagpur, Bombay, Lucknow, Mangalore, ~~Simla~~, ~~Jammu-Tawi~~ and ~~Cuddapah~~ have been established. Ludhiana Hydrabad

Fuel Research Institute, Central, *Jealogra, Dhanbad*, 826001, *Bihar*—Fundamental and applied research on fuels—Solid, liquid and gaseous, Physical and chemical surveys of Indian coals are conducted through seven coal survey stations under the Institute.

Geophysical Research Institute, National, *Hyderabad* 500007 —Gravitational, magnetic, electrical and seismic surveys for understanding the crustal structure of India and also study and improvement of methods and techniques of exploration.

Glass and Ceramic Research Institute, Central, *Jadavpur University P.O., Calcutta*-700032—Applied research on different aspects of glass, pottery, refractories, vitreous enamels and mica; evaluation and utilization of indigenous raw materials, import substitution, development of new processes and products, improvement in quality of industrial products, standardisation, etc.; Undertakes investigation and projects sponsored by industry and operates pilot plants for the production of optical glass and radiation shielding windows.

Leather Research Institute, Central, *Adyar, Madras* 600020—Fundamental and applied aspects of leather technology. The institute has five extension centres at Calcutta, Rajkot, Jullundur, Kanpur and Bombay.

Mechanical Engineering Research Institute, Central, *Mahatma Gandhi Avenue, Durgapur* 713209—*W. Bengal*—Research in mechanical engineering in all its aspects. It maintains Mechanical Engineering Research and Development Centres at Ludhiana, Poona and Madras.

Medicinal Plants Organisation, Central Indian, *National Botanic Gardens Campus, Lucknow* 226001—Co-ordination of activities in the development of cultivation and utilisation of medicinal plants and to develop the vegetable drug resources of the country. It has two zonal centres located at Bangalore and Haldwani (U.P.), and maintains four drug farms and factories in Jammu and Kashmir.

Metallurgical Laboratory, National, *Jamshedpur* 831007, *Bihar*—Fundamental and applied metallurgical research. It maintains four Regional Foundry Research Stations; located in Punjab, Tamil Nadu and West Bengal.

Mining Research Station, Central, *Barwa Road, P.O. Box* 50, *Dhanbad* 826001, *Bihar*—Research in methods of mining, safety in mines and mine machinery.

Oceanography, National Institute of, *CSIR Building, Rafi Marg, New Delhi* 110001—Research on various aspects of physical, biological, geological and chemical oceanography including prospecting for petroleum and minerals in sea bed. The Institute maintains Indian Biological Centre and the Indian Ocean Physical Oceanographic Centre at Ernakulam. The International Biological Programme also functions at I.O.P.O. Centre, Ernakulam.

Petroleum, Indian Institute of, *Mokhampur, Dehra Dun* 248001—Research in petroleum refining and processing of natural gas, petro-chemicals, etc., and providing facilities for the training of personnel for oil and petroleum industries.

Physical Laboratory, National, *Hillside Road, New Delhi* 110012—Research in problems relating to Physics, both fundamental and applied. Maintenance of standards testing facilities are also available.

Public Health Engineering Research Institute, Central, *Nehru Marg, Nagpur* 440003—Research in all aspects of public health engineering and co-ordination of work of all interested agencies in this field in the country. A number of field centres and units at various places have also been established by the Institute. The field centres are located at Sewage Farm Road, Ahmedabad and Dr. Annie Besant Road, Worli, Bombay.

Research Laboratory, Regional, *Bhubaneswar* 751004, *Orissa*—Identification and exploration of problems of the region, bringing projects of potential local application to the attention of local industries and providing assistance to associated local industries in the testing of their products and quality control.

Research Laboratory, Regional, *Hyderabad* 500009—Research in problems relating to the industries and raw materials of the region.

Research Laboratory, Regional, *Canal Road, Jammu-Tawi* 180001, *Jammu & Kashmir*—Research in problems relating to the industries and raw materials of the region and research specially directed to medicinal plants of the Himalayas (Kashmir region).

Research Laboratory, Regional, *Jorhat* 785006, *Assam*—Research problems relating to more efficient utilisation and better conservation of important national resources of Assam and surrounding areas with a view to adding to the industrial development of the region.

Road Research Institute, Central, *Mathura Road, New Delhi* 110020—Research on road materials, testing of road materials and road surfaces.

Salt & Marine Chemical Research Institute, Central, *Waghawadi Road, Bhavnagar* 364002, *Gujarat*—Investigation of production of pure salts, reduction in cost of production; economic utilisation of by-products of salt, development of new methods and technique for the recovery, production and utilization of various marine and allied chemicals.

Scientific Instruments Organisation, Central, *Sector* 30, *Chandigarh* 160020—Promotion and development of indigenous manufacture of scientific instruments for teaching, research and industry. Its service centres are located in New Delhi and Madras.

Structural Engineering Research Centre, *Roorkee, Uttar Pradesh*—Research in specialised design and development work in structural problems connected with buildings, bridges and other structures.

Toxicology Research Centre, Industrial, *Chattar Manzil Palace, Post Box* 80, *Lucknow* 226001 — To study the harmful effects of industrial toxins on skin, blood, gastro-intestinal tract, central nervous system, bones, etc.

SCIENCE MUSEUMS

Industrial & Technological Museum, Birla, 19*A Gurusaday Road, Calcutta* 700019.

Industrial & Technological Museum, Visvesvaraya, *Kasturba Road, Bangalore* 560001.

INFORMATION CENTRES

Publications and Information Directorate, *Hillside Road, Delhi* 110012—It disseminates scientific and technical information through publication of encyclopaedias, journals and reports; and imparts training in publication and production work to personnel from information division of the national laboratories.

Documentation Centre, Indian National Scientific, *Hillside Road, Delhi* 110012—Established with technical assistance from UNESCO, provides a complete range of documentation services to individuals and institutions all over the country.

INDIAN COUNCIL OF AGRICULTURAL RESEARCH, *Krishi Bhavan, New Delhi* 110001.

ICAR functions as a part of the Ministry of Agriculture. There are 24 research establishments under the Council which include institutes, laboratories and stations. Some of these research establishments have their own regional field stations. In addition, nine Soil Conservation Research, Demonstration and Training Centres have also come under the control of the Council; and the All India Soil and Land Use Survey Scheme has been transferred to the Government side of the Council.

The research establishments coming under the ICAR for Arecanut, Cotton, Fisheries, Jute, Lac, Sheep and Wool, Sugarcane and Tobacco have been mentioned under their respective chapters. The remaining ones are listed below.

Agricultural Research Institute, Indian, *Pusa, New Delhi* 110012—The Institute has 17 Divisions and a number of regional research centres and sub-stations which conduct research on vegetable breeding, plant introduction, plant virus, wheat breeding, etc.

Since 1920, the Institute has been organising a two year post-graduate training course in the major disciplines of agriculture leading to the award of the diploma of Associateship of the I.A.R.I. which is recognised by the Government of India as equivalent to the M.Sc. degree of the Universities. In 1958, the Institute was conferred with the status of an University under the U.G.C. Act and the Post-graduate School of IARI began conducting courses leading to the award of M.Sc. and Ph.D. courses.

Agricultural Research Statistics, Institute of, *Library Avenue, New Delhi* 110012.

Arid Zone Research Institute, Central, *Jodhpur* 342001, *Rajasthan* — Research in agronomy, agrostology, arid zone silviculture, soil science etc.

Coconut Research Station, Central, 1) *at Kasargod, Kuldu P.O., Kerala.* 2) *at Kayangulam, P.O. Ochira, Kerala.*

Dairy Research Institute, National, *Karnal* 132001, *Haryana. Regional Stations : Eastern — at Kalyan, West Bengal ; Southern — at P.O. Adugodi, Hosur Road, Bangalore* 560030 ; *Western — at Aarey Milk Colony, Bombay* 400065.

Grassland and Fodder Research Institute, Indian, *Jhansi* 284001, *Uttar Pradesh.*

Horticultural Research, Institute of, *No.* 255, *Upper Palace Orchards, Bangalore* 560006.

Potato Research Institute, Central, *Simla* 171001, *Himachal Pradesh.*

Rice Research Institute, Central, *Cuttack* 753006, *Orissa.*

Rice Research Station, Central Saline, *C/o. Central Rice Research Institute, Canning Town P.O.*, 24-*Parganas, West Bengal.*

Tube Crops Research Institute, Central, ' *Vardhini* ', *Vazhuthacaud, Trivandrum* 695010.

INDIAN COUNCIL OF MEDICAL RESEARCH

Ansari Nagar, New Delhi 110016.

ICMR functions as a part of the Ministry of Health and Family Planning. The Council maintains six permanent institutions and a number of research units at various medical institutions in the country. These institutions and units have been marked with an asterisk in the list of other important medical research bodies mentioned below.

Anatomy : *Institute of Anatomy, Madras Medical College, Park Town, Madras* 600003.

Cancer : (1) *Cancer Research Institute of Tata Memorial Centre, Parel, Bombay* 400012. (2) *Chittaranjan National Cancer Research Centre,* 37, *S. P. Mookerjee Road, Calcutta* 700026. (3) *Mehdi Nawaz Jung Cancer Hospital and Radium Institute, Red Hills, Hyderabad* 500001, *Andhra Pradesh.*

Health, Preventive Medicine : (1)†*All India Institute of Hygiene and Public Health,* 110, *Chittaranjan Avenue, Calcutta* 700012. (2) *Chemical Examiners' Laboratory, Madras* 600003. (3) *Public Health Laboratory, Red Cross Road, Trivandrum* 695001, Kerala. (4) *Government Analyst's Laboratory, Red Cross Road, Trivandrum* 695001, *Kerala.*

Indian Systems of Medicine : (1) *Institute for Ayurvedic Studies and Research, Dhanwantri Mandir, P.O. Bag* 513, *Jamnagar* 361001, *Gujarat.* (2)† *Institute of Research in Indigenous System of Medicine, Approach Road, Jogindernagar, Himachal Pradesh.*

Infectious Diseases : (1) **Cholera Research Centre,* 3 *Kyd Street, Calcutta* 700016. (2) *Institute of Venereology, Government General Hospital, Madras* 600003. (3)† *National Institute of Communicable Diseases,* 22, *Alipore Road, Delhi* 110006.

Leprosy : (1)† *Central Leprosy Teaching and Research Institute, P.O. Box* 1, *Chingleput* 603001, *Tamil Nadu.* (2) *Leprosy Investigation and Treatment Centre, Zaheerabad, Medak District, Andhra Pradesh.* (3)* *Leprosy Research Unit, C/o School of Tropical Medicine, Calcutta* 700012. (4) *Schieffelin Leprosy Research Sanatorium, Karigiri, Via Katpadi, North Arcot District, Tamil Nadu.*

Liver Diseases : * *Liver Diseases Research Unit, C/o Department of Pathology, S. N. Medical College, Agra* 282001.

Medical Education and Research : (1)† *All India Institute of Medical Sciences, Ansari Nagar, New Delhi* 110016. (2)† *All India Institute of Physical Medicine and Rehabilitation, Haji Ali Park, Clerk Road, Bombay* 400034. (3)† *Central Research Institute, Kasauli, Himachal Pradesh.* (4) *Haffkine Institute, Parel, Bombay* 400012. (5) *Indian Institute of Experimental Medicine,* 4 *Raja Subodh Mullick Road, Calcutta* 700032. (6) *Institute of History of Medicine and Medical Research,* 2/A-3, *Asaf Ali Road, New Delhi* 110001. (7) *Institute of Post-graduate Medical Education and Research,* 244, *Lower Circular Road, Calcutta* 700020. (8)† *Jawaharlal Nehru Institute of Post-graduate Medical Education and Research, Pondicherry* 605006. (9)† *National Institute of Health Administration and Education, E*-16, *Greater Kailash, New Delhi* 110048. (10) *Post-graduate Institute of Indian Medicine, Varanasi* 221005, *Uttar Pradesh.* (11) *Post-graduate Institute of Medical Education and Research, Sector* 12, *Chandigarh* 160001. (12) *Sheth K. M. School of Postgraduate Medicine and Research, Ellis Bridge, Ahmedabad* 380006.

Mental Health : (1)† *All India Institute of Mental Health, P.O. Bag* 15, *Shantinagar P.O., Bangalore* 560027. (2) *Hospital for Mental Diseases and Post-graduate Training Centre, Kante, Ranchi* 834001, *Bihar.*

Nutrition : **Nutrition Research Laboratories, Tarnaka, Hyderabad*-500007, *Andhra Pradesh.*

Occupational Health : (1) *Industrial Toxicology Research Centre, Chattar Manzil Palace, Post Box* 80, *Lucknow,* 226001, *Uttar Pradesh.* (2)* *Occupational Health Research Institute, C/o B. J. Medical College, Ahmedabad* 380006, *Gujarat.*

Ophthalmology : (1) *M. U. Institute of Ophthalmology, Gandhi Eye Hospital, Aligarh* 202001, *Uttar Pradesh.* (2) *Nehru Institute of Ophthalmology, Eye Hospital, Sitapur* 261001, *Uttar Pradesh.*

Paediatrics : (1) *B. M. Institute, Balghar, Godavari Centre for Family Relations, Navrangpura, Near Nehru Bridge, Ahmedabad* 380009, *Gujarat.* (2) *Institute of Child Health,* 11, *Dr. Biresh Guha Road, Calcutta* 700017.

Pathology :* *Indian Registry of Pathology, C/o Department of Pathology, Safdarjung Hospital, P.O. Box* 3039, *New Delhi* 110003.

Pharmacy : (1) *Central Drug Research Institute, Chattar Manzil Palace, P.O. Box* 173, *Lucknow,* 226001, *Uttar Pradesh.* (2)† *Central Drug Laboratory,* 3 *Kyd Street, Calcutta* 700016.

Physiology : (1)* *Blood Group Reference Centre, Seth G. S. Medical College, Bombay* 400012. (2) *Defence Institute of Physiology and Allied Sciences, Cantonment, New Delhi* 110010. (3)* *Haematological Unit, C/o School of Tropical Medicine, Calcutta* 700012.

Radiotherapy : (1) *Barnard Institute of Radiology, Madras Medical College, Madras* 600003. (2) *Institute of Nuclear Medicine and Allied Sciences, Probyn Road, Delhi* 110006.

Reproduction : (1)* *Institute of Reproductive Biology, C/o Seth G. S. Medical College, Parel, Bombay* 400012. (2)* *Contraceptive Testing Unit, C/o Indian Cancer Research Institute, Parel, Bombay* 400012.

Serology : (1)† *B. C. G. Vaccine Laboratory, Guindy, Madras* 600032. (2) *Government Vaccine Institute and Pasteur Institute, Namkum P.O., Ranchi* 834010, *Bihar.* (3) *King Institute of Preventive Medicine, Guindy, Madras* 600032. (4) *State Vaccine Institute, Patwadanagar, Nainital,* 263001, *Uttar Pradesh.*

Tuberculosis : (1) *Government Chest Institute and Tuberculosis Demonstration and Training Centre, Spur Tank Road, Chetput, Madras* 600013. (2)* *Madanpalle Tuberculosis Research Unit,* 1 *Bank Road, Madanapalle, Andhra Pradesh.* (3)† *National Tuberculosis Institute,* 8, *Bellary Road, Bangalore* 560003. (4)* *Tuberculosis Chemotherapy Centre, Chetput, Madras* 600013. (5)† *Vallabhbhai Patel Chest Institute, University of Delhi, Delhi*-110007.

Virus Infections : (1)* *Enteroviruses Unit, C/o Haffkine Institute, Parel, Bombay* 400012. (2)* *Trachoma Research Centre, Gandhi Hospital, Aligarh* 202001, *Uttar Pradesh.* (3)* *Virus Research Centre,* 20-*A, Wellesley Road, Pune* 411001, *Maharashtra.*

Voice and Speech : †*All India Institute of Speech and Hearing, Maharaja College Centenary Hall, Mysore* 570005.

OTHER CENTRAL GOVERNMENT INSTITUTIONS

Anthropological Survey of India, 27, *Jawaharlal Nehru Road, Indian Museum, Calcutta* 700013. (*Min. of Edu.*).

Atlas Organisation, National, 50A, *Gariahat Road, Calcutta* 700019. (*Min. of Edu.*).

Bee Research Institute, Central, 839/1 *Shivajinagar, Pune* 411004. (*Min. of Ind. Dev.*).

Botanical Survey of India, 14, *Madan Street, Calcutta* 700013. (*Min. of Edu.*). (1) *Central Circle*—10, *Chatham Lines, Allahabad* 211002, *Uttar Pradesh.* (2) *Eastern Circle* — '*Woodlands*', *Lower New Colony, Shillong* 793003, *Assam.* (3) *Northern Circle* — 3, *Lakshmi Road, Dehra Dun* 248001, *Uttar Pradesh.* (4) *Southern Circle*—29, *Dewan Bahadur Road, R. S. Puram, Coimbatore* 641002, *Tamil Nadu.* (5) *Western Circle—Koregaon Road, Moti Mansion, Pune* 411001, *Maharashtra.*

Botanic Garden, Indian, *Shibpore, Howrah* 711103, *West Bengal.* (*Min. of Edu.*).

Buildings Organisation, National, *Nirman Bhavan, 'G' Wing, Maulana Azad Road, New Delhi* 110011 (*Min. of Works & Hsg.*).

Civil Aviation Department, Research and Development Directorate, *Technical Centre, Civil Aviation Department, Safdarjung, New Delhi* 110003. (*Min. of T. & C. Avn.*).

Coffee Research Institute, Central, *P.O. Coffee Research Station, Chikmagalur Dist. Mysore State.* (*Min. of Commerce*).

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* Institutions under Indian Council of Medical Research. † Institutions under Central Government, Ministry of Health and Family Planning.

Coir Research Institute, Central, *P.O. Kalvoor, Alleppey* 688001, *Kerala State. (Min. of Commerce).*

Design Institute, National, *Paldi, Ahmedabad*-380007, *(Min. of Ind. Dev.).*

Family Planning Institute, *L*-17, *Green Park, New Delhi* 110016, *(Min. of H. & F. Plg.).*

Family Planning Training & Research Centre, 382, *Sardar Vallabhbhi Patel Road, Bombay* 400004. *(Min. of H. & F. Plg.).*

Fishing Organisation, Deep Sea, *Botawala Chambers, Sir P. M. Road, Bombay* 400001. *(Min. of Agri.).*

Food Laboratory, Central, 2, *Kyd Street, Calcutta* 700016. *(Min. of Agri., Dept. of Food).*

Forensic Science Laboratory, Central, 30, *Gora Chand Road, Calcutta* 700014. *(Min. of Home Aff.).*

Forest Research Centre, *Coimbatore* 641002, *Tamil Nadu, (Min. of Agri.).*

Forest Research Institute and Colleges, *New Forest P.O., Dehra Dun,* 248001 *Uttar Pradesh, (Min. of Agri.).*

Forest Research Laboratory, *Malleswaram P.O., Bangalore* 560003. *(Min. of Agri.).*

Foundry & Forge Technology, National Institute of, *Dhurwa P.O., Ranchi* 834004, *Bihar. (Min. of Edu.).*

Geodetic and Research Branch, *Survey of India, P.O. Box* 77, *Dehra Dun* 248001, *Uttar Pradesh, (Min. of Edu.).*

Geological Survey of India, 27, *Jawaharlal Nehru Road, Calcutta* 700001. *(Min. of Petro. & Chem.).*

Grain Storage Research and Training Centre, *Meerut Road, P.O. Box* 10, *Hapur, Uttar Pradesh. (Min. of Agri., Dept. of Food).*

Handloom Technology, Indian Institute of, (1) *Foulkes Compound, Salem*-636001, *Tamil Nadu;* (2) *Chowkaghat, Varanasi* 221002, *Uttar Pradesh. (Min. of Ind. Dev.).*

Housing Wing, Rural, *Punjab Engineering College, Chandigarh,* 160001 *(Min. of Works & Hsg.).*

Housing Wing, Rural, Research-cum-Training Centre, *Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar, Kaira District, Gujarat. (Min. of Works & Hsg.).*

Machine Tool Institute, Central, *Tumkur Road, Bangalore* 560022. *(Min. of Ind. Dev.).*

Man-power Research, Institute of Applied, *Indraprastha Estate, Ring Road, New Delhi* 110001, *(Min. of Home Aff.).*

Meteorological Department, India, *Meteorological Office, Lodi Road, New Delhi* 110003. *(Min. of T. & C. Avn.).*

Meteorology, Institute of Tropical, *Ramdurg House, Poona University Road, Pune* 411005. *(Min. of T. & C. Avn.).*

Mines, Indian Bureau of, *New Secretariat Building, Nagpur.* 440001, *(Min. of Steel & Mines.).*

Observatory, Astrophysical, *Kodaikanal* 3, *Tamil Nadu. (Min. of T. & C. Avn.).*

Observatory, Central Seismological, *Health Home, Shillong* 793005, *Assam (Min. of T. & C. Avn.).*

Observatory, Colaba and Alibag, *Colaba, Bombay* 400005, *(Min. of T. & C. Avn.).*

Oil & Natural Gas Commission, Research & Training Institute, 9, *Kaulagarh Road, P.O. Box* 40, *Dehra Dun,* 248001, *Uttar Pradesh. (Min. of Petro. & Chem.).*

Orthopaedics, Central Institute of, *Safdarjang Hospital, New Delhi,* 110016. *(Min. of H. & F. Plg.).*

Photo-Interpretation Institute, Indian, *No.* 113, *Rajpur Road, Dehra Dun* 248001, *Uttar Pradesh. (Min. of Edu.).*

Pineapple Fibre Research Centre, *Moodbidri, Mysore State. (Min. of Ind. Dev.).*

Population Studies, International Institute of, *Govandi Station Road, Chembur, Bombay* 400071.

Power Research Institute, *P.O. Box* 1042, *Bangalore* 560012. *(Min. of Irr. & Power).*

Productivity Council, National, 38, *Golf Links, New Delhi* 110003. *(Min. of Ind. Dev.).*

Radio, Office of the Research Engineer, All India, *Indraprastha Estate, New Delhi* 110001, *(Min. of Inf. & Br.).*

Railways, Research Designs and Standards Organisation, *Ministry of Railways, Alambagh, Lucknow*-226005.

Rubber Research Institute of India, *Kottayam* 686009, *Kerala, (Min. of Commerce).*

Salt Test Laboratory, Government, *Antop Hills Wadala, Bombay* 400031. *(Min. of Petro. & Chem.).*

Science Education, Department of, *National Institute of Education, Mehrauli Road, New Delhi* 110006, *(Min. of Edu.).*

Sericultural Research and Training Institute Central, *Shanthivilas, Nazarbad, Mysore* 570001. *(Min. of Commerce).*

Small Industries Extension Training Institute, *Yousufguda, Hyderabad* 500038. *(Min. of Ind. Dev.).*

Soil Mechanics Research Station, Central, *Exhibition Grounds, American Pavilion, Mathura Road, New Delhi. (Min. of Irr. & Power).*

Standard Institution, Indian, 9, *Bahadur Shah Zafar Marg, New Delhi* 110001. *(Min. of Ind. Dev.).*

Sugar Institute, National, *Kalimpur, Kanpur,* 208001, *Uttar Pradesh, (Min. of Agri., Dept. of Food).*

Telecommunication Research Centre, *Eastern Court Compound, Janpath, New Delhi* 110001 *(P. & T. Dept.).*

Test House, National, 11/1 *Judges' Court Road, Alipore, Calcutta* 700027. *(Min. of Ind. Dev.).*

Village Industries, Jamnalal Bajaj Central Research Institute for, *Maganwadi, P.O. Box* 4, *Wardha,* 442001, *Maharashtra, (Min. of Ind. Dev.).*

Water & Power Research Station, Central, *Khadakwasla P.O., Pune* 411024. *(Min. of Irr. & Power).*

Zoological Survey of India, 34, *Chittaranjan Avenue, Calcutta* 700012. *(Min. of Edu.).*

ATOMIC ENERGY

HISTORY AND DEVELOPMENT

An Atomic Energy Commission was set up on August 10, 1948, under the terms of Atomic Energy Act passed in 1948, with Dr. H. J. Bhabha as its Chairman. The Commission's main aims were :

(*a*) Prospecting for atomic minerals ;

(*b*) Development of such minerals on an industrial scale ;

(*c*) Research work connected with the release of atomic energy for peaceful purposes ;

(*d*) Training of technical personnel to this end ;

(*e*) And to foster fundamental research in nuclear sciences in its own laboratories, universities, and other institutions in India.

However, it was not until August 3, 1954 that the Government of India launched a full-fledged atomic energy programme and the Department of Atomic Energy was created.

Rare minerals section, which formed the nucleus of the present Atomic Minerals Division, was taken over from the geological survey of India in 1949. The Indian Rare Earths Limited was registered as a company on August 18, 1950 and its rare earths plant at Alwaye, Kerala, went into production in August, 1952.

AEC decided to build India's first research reactor (of the swimming pool type) APSARA, in March 1955 and it reached criticality on August 4, 1956. APSARA and the Atomic Energy Establishment at Trombay, near Bombay were formally inaugurated by the Prime Minister on January 20, 1957. In the meantime efforts were made to build the CANADA-INDIA REACTOR with Canadian assistance under the Colombo Plan. CIRUS attained criticality on July 10, 1960 and was first operated at full power on October 16, 1963. India's third research reactor, ZERLINA, was designed, engineered and built entirely by Indian personnel. It reached criticality on January 14, 1961.

A Radio Isotopes Division was started at Trombay in April 1957, and produced first samples of radio isotopes in February 1958. A decision to set up a Uranium Metal Plant and a Fuel Element Fabrication Facility also at Trombay was taken, in May 1956 and the first ingot of nuclear pure uranium metal was produced on January 30, 1959. Plans to build India's first atomic power station at Tarapur were announced in 1960 and by 1961 the construction of a Plutonium Plant at Trombay had started.

The responsibility for expansion of medical facilities and Research in cancer and several other diseases with the help of radio isotopes etc. at Tata Memorial Hospital and Indian Cancer Research Centre was taken over by the Department, in February 1962. On August 9 in the same year, the Nangal Heavy Water Plant went into production. A new Atomic Energy Act came into force in September 1962. The decision to build a second atomic power station at Rana Pratap Sagar (Kota), and the third one at Kalpakkam, Tamil Nadu was also taken during this year. In December 1963, an agreement was signed with Canada regarding the Rajasthan Atomic Power Station. In August 1964 the Plutonium plant was completed and in May of the same year, a contract was signed with the International General Electric Company of United States regarding Tarapur Station. The year 1964 marked the end of phase II (extending between 1956-1964) which saw the development of know-how and technology for the country's nuclear Power Programme.

The Indian Rare Earths Limited took over the operations of the atomic minerals sand industry in January 1965 and in June of the same year the Atomic Energy Commission decided to set up a Nuclear Fuel Complex at Hyderabad to make the country self-sufficient in fuel elements required for future power reactors. In April 1966, the construction of a Food Irradiation and Processing Laboratory commenced at Trombay with a view to use atomic energy for the preservation of foods of economic importance. The Atomic Energy Establishment at Trombay was renamed as 'Bhabha Atomic Research Centre' (BARC) in memory of the late Dr. Bhabha on January 12, 1967. The Electronics Corporation of India Ltd., was established at Hyderabad in April of the same year. Another industrial unit under the Department, the Uranium Corporation of India Limited, was formed in October 1967 with the responsibility for the development of the uranium mine and mill at Jaduguda, Bihar. Both the mine and the mill were commissioned during the next year. In November 1968, the Atomic Energy Commission decided to set up the second heavy water plant at Kota in Rajasthan.

It was decided that research and development regarding plutonium-based reactors will be conducted at the Reactor Research Centre to be set up at Kalpakkam in Tamil Nadu. An agreement between the Department of Atomic Energy and the Commissariat AL' Energie Atomique (CEA), France regarding the 15 MWe Fast Breeder Test Reactor which will form a part of the Reactor Research Centre was signed on April 11, 1969. Both the reactors of the Tarapur Atomic Power Station reached criticality by the end of February, 1969 and the plant commenced commercial production of nuclear power on October 3, 1969. The Tarapur Atomic Power Station was dedicated to the nation by the Prime Minister on January 19, 1970. Contracts were signed with the French Consortium GELPRA in September 1969 and April 1971 for the setting up of two further heavy water plants at Baroda in Gujarat and Tuticorin in Tamil Nadu respectively. Some of the units of the Nuclear Fuel Complex at Hyderabad were also commissioned during 1971. With an aim to develop the application of atomic energy in agriculture, a Nuclear Agricultural Laboratory was inaugurated by the Prime Minister in New Delhi on November 29, 1971. The Zero Energy Fast Reactor *Purnima* entirely designed, engineered and constructed by BARC scientists attained criticality on May 22, 1972. The first unit of the Rajasthan Atomic Power Station reached criticality in August of the same year. The decision to set up the country's fourth nuclear power station at Narora in Uttar Pradesh was also announced in 1972.

Future Programme : Commissioning by 1985 of 2700 MWe nuclear power ; design and construction of prototype and commercial fast breeder reactors ; augmentation of heavy water production ; development of gas centrifuge and other technologies for uranium enrichment ; and all round strengthening of support facilities. This includes development of the Narwapahar uranium mines and facilities for extraction of uranium from low-grade ores, creation of adequate facilities for reprocessing irradiated fuel and for recovery of valuable by-products, and widespread application of isotopes in industry, for food preservation, medicine, agriculture and research.

Administrative set-up : The development and control of atomic energy in India is regulated by the Atomic Energy Act (Act No. 33 of 1962) and the Department of

Atomic Energy handles all business of the Government of India relating to atomic energy and functions of the Central Government under the Act.

The Atomic Energy Commission is responsible for (*a*) formulating the policy of the Department of Atomic Energy, (*b*) preparing the budget of the Department for each financial year and getting it approved by the Government, and (*c*) implementing Government's policy in all matters concerning atomic energy.

The scientific and technical work of the Department is carried out by the Atomic Minerals Division and the Bhabha Atomic Research Centre at Trombay near Bombay and the Reactor Research Centre, Kalpakkam, Tamil Nadu.

Atomic Minerals Division : The Atomic Minerals Division of the Department of Atomic Energy has been carrying out exploration for minerals prescribed under the Atomic Energy Act in different parts of India. One of the results of this effort has been the discovery of a number of uranium deposits in the Thrust Belt in Singhbhum district, Bihar. Of these the uranium deposit at Jaduguda is already being mined by the Uranium Corporation of India Limited, a public sector undertaking of the Department of Atomic Energy. The mill attached to the mine treats 1,000 tonnes of ore per day. The other important deposits being developed underground are those of Narwapahar and Bhatin, while a third deposit which promises to be a large-sized one and which has been recently discovered and is currently under investigation is that at Turamdih. A number of comparatively smaller deposits occur at Bagjata and Kanyaluka. The occurrences of uranium in the mountainous terrain of Himachal Pradesh and Uttar Pradesh as well as indication of uranium in Madhya Pradesh are under investigation. A few deposits are also known in Rajasthan but they are comparatively small. Significant uranium values have also been found in certain parts of the phosphorite deposit at Mussoorie.

The present overall indicated and inferred reserves of uranium are estimated at about 63,500 short tons (57,727 tonnes) of uranium oxide in addition to about 12,600 short tons (11,455 tonnes) of uranium oxide estimated to be present in monazite in coastal and inland placer sand deposits in India.

Some of the beach sand deposits of Kerala, Tamil Nadu and Orissa as well as inland placer deposits of Bihar and West Bengal contain monazite, ilmenite, leucoxene, rutile, sillimanite, kyanite etc. Thorium oxide in Indian monazites ranges between 8 to 10·5%, uranium oxide 0·3 to 0·4%, rare-earth oxides of 55 to 65%, and phosphate 26 to 28%. The reasonably assured resources of monazite are of the order of 3·8 million tonnes estimated to contain about 0·343 million tonnes of thorium oxide.

The estimated reserves of ilmenite in the country are placed at 133·76 million tonnes. Some of the important beach deposits in Kerala and Tamil Nadu are being exploited for ilmenite and other associated minerals. The production of ilmenite during the year 1970 was 76,770 tonnes.

Bhabha Atomic Research Centre, Trombay : The Bhabha Atomic Research Centre (BARC), is India's principal centre for research in and development of atomic energy for peaceful purposes.

The centre with a staff of nearly 9,660, composed of 2,130 Scientific, 4,030 technical, 1,770 administrative and 1,730 general maintenance and auxiliary staff is the largest single scientific establishment in the country.

Every year about 150 science graduates and engineers are recruited and given intensive training at the centre for one year prior to being absorbed in the various projects of the Atomic Energy Department.

RESEARCH REACTORS

Apsara : The first nuclear research reactor in Asia, outside the USSR, attained criticality on August 4, 1956. It is an enriched uranium light water moderated and cooled pool type reactor. The reactor is designed for a maximum power level of 1 mw.

A number of experimental facilities have been provided in the reactor which has proved to be extremely useful for fundamental and applied research in basic sciences and engineering, radioisotope production and training of personnel.

Cirus : (formerly known as CIR) is India's second research reactor, built as a joint Indo-Canadian project under the Colombo Plan. The reactor attained criticality on July 10, 1960.

Cirus is a natural uranium heavy water moderated and light water cooled high flux research reactor with a terminal power of 40,000 kw. The reactor is used for basic and applied research in physics, chemistry, biology, metallurgy, reactor technology and for the production of large quantities of high activity radioisotopes. It is also used for the training of personnel for future reactor programmes.

Zerlina : is India's third research reactor. It is a zero energy reactor for lattice investigations and new assembly studies. The reactor attained criticality on January 14, 1961 with a natural uranium — heavy water loading. The reactor is being extensively used for physics experiments and studies of uranium — heavy water lattices.

Purnima: is the country's first experimental fast reactor. It uses plutonium oxide as fuel and attained criticality on May 22, 1972.

Besides being used for the training of personnel in the operation of plutonium fuelled fast reactors, experiments will be carried out with this facility to measure certain nuclear parameters which will enable scientists to design and develop the core of the pulsed Fast Reactor to be constructed near Kalpakkam, Tamil Nadu, as a part of the Reactor Research Centre.

The natural uranium fuel elements for **Cirus** and **Zerlina** and the plutonium oxide fuel elements for **Purnima** are fabricated in Trombay.

Fuel Element Fabrication Facility : This facility went into operation in June 1959. It now fully meets the fuel element requirements of both **Cirus** and **Zerlina.** The present capacity of this plant is about 30 to 40 tonnes of fuel elements per year. The nuclear grade uranium is produced in the uranium metal plant at Trombay.

A good deal of development work has been carried out in the existing facility for the fabrication of power reactor fuel elements, which consist of sintered uranium oxide pellets clad in zircaloy.

A beginning has also been made in the development and production of thorium oxide and thorium metal fuel elements in the facilities at **BARC.**

Plutonium Plant : The plutonium plant went into operation at Trombay in 1964, for processing the fuel elements irradiated at **Cirus.** The plant basically meant for the separation and recovery of plutonium and fission products from irradiated uranium, has given the necessary data and experience on the basis of which a bigger fuel reprocessing plant is being built at Tarapur. This is expected to be completed by the end of 1973.

A pilot-plant has also been designed, built and successfully operated at Trombay for reprocessing thorium oxide and metal fuel elements irradiated at **Cirus** to recover uranium-233, the future nuclear fuel.

Electronic Instruments and Components : Electronics is vital to the development of nuclear energy. Reliable instrumentation is essential for the safe operation of reactors, remote sensing and assessment of highly radioactive materials, and identification of isotopes. The Electronics Division of BARC is designing and fabricating nuclear and other instrumentation required for the Indian atomic energy programme. The control systems for the research reactors **Apsara** and **Zerlina** were fabricated by this group. It has designed equipment for contamination and area monitoring, and health equipment for **Cirus,** fuel reprocessing plant and the radiological laboratories at Trombay. The Division has also fabricated and supplied instruments for the environmental laboratory at Tarapur. Besides, it has supplied a number of nuclear instruments for universities, and other institutions using radiation sources, and radioisotopes.

Isotope Laboratory : A large number of radiopharmaceuticals, biochemicals and labelled organic and inorganic compounds are being produced in this laboratory. Iridium-192 radiography units and gamma irradiators containing cobalt-60 are now being manufactured and supplied to various hospitals and industrial units. At present some 350 radioactive products are made available for a wide variety of uses in India, and some are exported abroad. The sale value of radioisotopes, equipment and services rendered totalled Rs. 3·772 million including Rs. 0·506 million in exports during the year 1971-72.

Food Technology : Radiation provides an effective means for food preservation through control of food-borne spoilage organisms, eradication of pests in stored grains and by retarding physiological processes such as ripening and sprouting. The programmes of research at Trombay in this field are aimed at developing procedures for preservation of foods of economic importance using gamma radiation. Promising observations relate to (*i*) radiation disinfestation of stored grains, (*ii*) inhibition of sprouting in onions and potatoes, (*iii*) delayed ripening of mangoes and bananas, and (*iv*) extension of shelf-life of sea foods.

Radiation has also been used to induce mutations. Several mutants of economic importance have been obtained in rice and groundnut, and these have been tried in various parts of the country and have given excellent results.

For carrying out research in food technology, Trombay has a 5.66 hectares cultivable area for experimental crops, a 2.42 hectare field with the gamma source, controlled growth chambers and a glass house.

Health and Safety : The Department of Atomic Energy is responsible for country-wide radiation safety. The work on health and safety aspects of all installations carrying out atomic energy operations is managed by BARC in accordance with the requirements of the Atomic Energy Act, 1962. This is achieved by posting safety staff for supervision and advice, along with operational staff to cover both radiation and industrial aspects of safety at all installations. Through a country-wide net work of stations, measurements of fall-outs from nuclear tests are also being made. Samples of milk, food, rain water etc. collected from all over the country are being analysed for their radioactivity.

The Directorate of Radiation Protection is conducting a country-wide film badge service for persons working with radiation sources. The service now covers nearly 1,600 institutions and some 24,000 radiation workers. The Directorate also conducts a one year post-graduate course in radiological physics. It does research and development in fields such as hospital physics, radiation dosimetry and instrumentation, radiation applications and radiation bio physics. The Directorate is responsible for the formulation and promulgation under the Atomic Energy Act of various rules and regulations relating to radiation safety.

Central Workshops : A manufacturing facility for the production of specialised equipments and apparatus for the country's atomic energy programme, which cannot be readily undertaken by the commercial under-takings in India, have been set up at Trombay. The workshops are fabricating equipment for the Rajasthan Atomic Power Project and other projects, resulting in savings in cost and foreign exchange. The workshop also undertakes the fabrication of the two-stage "Centaure" rockets for the Indian Space Research Organisation.

Other Facilities : The facilities at BARC include a 400 channel analyser for the analysis of nuclear data, a 5·5 Mev. Van de Graaf accelerator, and a H-400 Honeywell computer system, A 224 cm Variable Energy Cyclotron is being set up near Calcutta by BARC as a national facility. This machine is expected to go into operation by the middle of 1973. The Technical Physics Division at BARC designs and fabricates vacuum equipment, mass spectrometers, electron beam and sintering furnaces for handling nuclear materials and different types of solid state radiation detectors. A Seismic Station has also been set up at Gauribidanur, near Bangalore to record earthquakes and to detect nuclear explosions in the atmosphere as well as underground.

INDUSTRIAL OPERATIONS

Electronics Corporation of India Ltd., Hyderabad : Formed in April 1967, the corporation took over the activities of the Electronics Production Unit of the Bhabha Atomic Research Centre with a view to producing on a commercial scale a variety of nuclear instruments, control equipment, electronic components etc. developed at BARC. The company has successfully developed a fully transistorised closed circuit TV system and is marketing a commercial TV set developed by it. The company earned a profit of Rs. 6·2 million in 1971-72.

Rare Earths Plant, Alwaye and Thorium Plant, Trombay : See under "Government Industrial Undertakings".

Uranium Corporation of India Ltd. : This company formed in October, 1967, has its registered office in Jaduguda, Bihar. It is responsible for developing the uranium mine and for the operation of the uranium mill at Jaduguda. The mill at present treats about 1,000 tonnes of ore per day. Uranium concentrates worth approximately Rs. 37·5 million were produced during 1971-72.

Mineral Sand Industry : Indian Rare Earths Ltd. is currently operating two plants, one at Manavalakurichi, Tamil Nadu and another at Chavara, Kerala for the separation of ilmenite, monazite, rutile, zircon, leucoxene, garnet and sillimanite.

Heavy Water Plants : The first heavy water plant at Nangal is producing 14·1 tonnes per annum of nuclear grade heavy water since August, 1962. It has been decided to set up at Kota a second plant with a capacity of 100 tonnes of heavy water per year to meet the needs of the atomic power stations in Rajasthan and Tamil Nadu. Two other plants, one at Baroda with a capacity of 67 tonnes per year, and another at Tuticorin with a capacity of 71 tonnes per year are now being set up. The fifth heavy Water Plant with a capacity of 63 tonnes per year will be constructed at Talcher in Orissa.

Nuclear Fuel Complex, Hyderabad : Based on the development work carried out at BARC, a nuclear fuel complex has been set up at Hyderabad for the fabrication of fuel elements for nuclear power reactors under construction and being planned. This facility covers the entire range of operations from raw material concentrates to finished fuel element assemblies and other reactor fuel components. The complex consists of a uranium oxide plant, a zirconium plant, a ceramic fuel fabrication plant and a special materials plant.

NUCLEAR POWER

The 420 MWe nuclear power station at Tarapur is being operated as a commercial undertaking since November 1, 1969. The station consists of two reactors of the boiling water type, and was built by the General Electric Company of the U.S.A. under a turn-key contract. Nuclear power began to flow from the station when it became operational at 8-15 p.m. on April 1, 1969. By the end of March, 1972, the station had generated over 4,590 million units of electricity. During the year 1970-71, it generated over 2,400 million units of which Maharashtra utilised 1,153 million units while Gujarat absorbed 1,092 million units.

Two other atomic power stations are under construction in the country. The Rajasthan Atomic Power station (being built with Canadian assistance) at Rana Pratap Sagar near Kota will have a capacity of 430 MWe. The first unit of this station attained criticality on August 11, 1972, while the second unit is expected to reach this stage by early 1975.

The other station being built at Kalpakkam near Madras will have a capacity of 470 MWe. The Kalpakkam station is being built entirely by Indians with about 80 per cent indigenous content. A Reactor Research Centre is being set up near the Madras Atomic Power Station. It will carry out studies in fast reactor technology. It will also have as an experimental facility a pulsed fast reactor. It has been decided to construct the country's fourth nuclear power station at Narora in Uttar Pradesh.

The Department of Atomic Energy envisages the commissioning by 1985 of 2,700 MWe of nuclear power in the country. The Department's total earnings from sale of goods (including nuclear power) during the year 1970-71, amounted to Rs. 220 million.

Nuclear Research Establishments : The Tata Institute of Fundamental Research is the National Centre for advanced study and fundamental research in nuclear science and mathematics and consists of a school of physics and a school of mathematics.

The Institute is the largest centre for cosmic ray research in India. Its school of mathematics is internationally reputed and recognised. Its areas of research activity include molecular biology, microwave engineering, solid state electronics and computer technology, besides fundamental research in nuclear physics, geophysics, chemical physics and solid state physics. It houses, as a national facility, an advanced and modern computer CDC 3600-160A. It also has a one MeV Cascade Generator. A large radiotelescope is also in operation at Ootacamund for lunar occultation studies of radio sources.

Two other important institutions conducting research in nuclear physics are the **Saha Institute of Nuclear Physics,** Calcutta and the **Physical Research Laboratory,** Ahmedabad.

A high altitude research laboratory is functioning at an altitude of 2,700 metres at Gulmarg in Kashmir.

Two other units under the administrative control of the Department are the **Radiation Medicine Centre** and the **Tata Memorial Centre** in Bombay.

Considerable fundamental research in nuclear sciences is also being conducted at various universities and research institutions all over India with financial assistance from the Department of Atomic Energy.

Practical Benefits of Atomic Energy : The anticipated revenue from industrial projects in a full year is expected to be Rs. 1,700 million. Rs. 1,260 million from sale of power, Rs. 200 million from heavy water, Rs. 200 million from fuel production and Rs. 40 million from plutonium.

The Departments total earnings from sale of goods (including nuclear power) during the year 1970-71 amounted to Rs. 220 million.

Cost of the Atomic Energy Programme : The total amount of funds required for the atomic energy programme during 1970-80 are estimated to be Rs. 12,500 million — Rs. 3,650 million during 1970-75, and Rs. 8,850 million during 1975-80. Rs. 2,539 million have been made available during the Fourth Plan (1969-74) period for atomic energy.

BUDGET PROVISION

The total provision in the budget for Department of Atomic Energy for 1973-74 is Rs. 1,101·8 million against Rs. 1,086·7 million in 1972-73. Out of this Rs. 563·6 million will be spent on atomic energy research and development and over Rs. 532·9 million on nuclear power schemes.

The Plan expenditure on these two heads will be 273·6 million and Rs. 289·9 million respectively.

SOCIAL WELFARE IN INDIA

Among Tribes: To study the problems that affect tribals and to train personnel to work among them the Government of India has set up nine research institutes. These are:

Tribal Cultural Research & Training Institute, Hyderabad, Andhra Pradesh ; *Tribal Research Institute*, Shillong, Assam ; *Tribal Research Institute*, Ranchi, Bihar ; *Tribal Research & Training Centre*, Gujarat Vidyapeeth, Ahmedabad, Gujarat ; *Tribal Research & Development Institute*, Bhopal, Madhya Pradesh ; *The Tribal Research Institute*, Pune, Maharashtra ; *Tribal Research Bureau*, Bhubaneswar, Orissa ; *The Tribal Research & Training Institute*, Udaipur, Rajasthan ; *Cultural Research Institute*, Calcutta, West Bengal.

The Central Social Welfare Board (Jeevan Deep Bldg., Parliament St., New Delhi-110001) : Was set up by the Government of India in August, 1953, and converted into a registered company on 1st April, 1969.

The Board consists of 39 members, including the Chairman, who evaluate and sponsor welfare programmes of the Central Government. At State level the Board has State Social Welfare Advisory Boards.

During 1971–72 the Government of India provided Rs. 1·27 million for general grants-in-aid to voluntary institutions and Rs. 1·40 million for Family and Child Welfare Projects.

The Central Bureau of Correctional Services (Block 1, Wing 7, Ground Floor, R. K. Puram, New Delhi-110022): Co-ordinates the policies and programmes in the field of social defence. (*i*) Collects and collates all India crime statistics; (*ii*) formulates policies for crime prevention; (*iii*) promotes research studies, surveys, experiments and training.

The Association of Moral & Social Hygiene in India (4-Deendayal Upadhyaya Marg, New Delhi-110001); This was set up to eradicate prostitution and other evils related to it. To establish, maintain and assist protective homes, and other institutions for the shelter, training and rehabilitation of women and children in moral danger.

Social Welfare and Rehabilitation Directorate (Jamnagar House Hutments, New Delhi-110011): Originally set up to tackle the problems of destitute women and children displaced from West Pakistan the activities have since been expanded to cover destitute and deserted women of Delhi and now also the war widows.

Widows : There are 83,340,000 women in the age group 20–24. As many as 300,000 of them become widows each year according to government of India estimates. The government expects to spend Rs. 300 million during the Fourth Plan period to give them relief and assistance.

Destitute Children : According to the 1961 census there were 171,095,000 children in the age group 0–14. By 1974 this figure is expected to become 231,639,000. Planning Commission estimates show 0·5 per cent of these children to be destitutes. This means there are 1·15 million destitute children in the country of whom only 192,000 will be covered for State assistance and relief during the Fifth Plan.

Funds for Research: Funds for research in social work are available from the Indian Council of Social Science Research, New Delhi, the Dept. of Social Security and the University Grants Commission, as well as other foreign bodies such as the Social Rehabilitation Service of the Dept. of Health, Education and Welfare, U.S.A.

SCHOOLS OF SOCIAL WORK

The Tata Institute of Social Sciences, Sion-Trombay Rd., Deonar, Bombay-400071; The Delhi School of Social Work, University of Delhi, University Rd., Delhi-110007; The Madras School of Social Work, Casa Major Rd., Egmore, Madras-600008; Faculty of Social Work, M. S. University of Baroda, Fatehgunj, Vadodara-390002; Department of Social Work, Lucknow University, Lucknow; Institute of Social Sciences, Kashi Vidyapith, Varanasi; The Indian Institute of Social Welfare & Business Management, College Square West, Calcutta-700007; The Institute of Social Service, Nirmala Niketan, 38 New Marine Lines, Bombay-400001; The Bombay Labour Institute, D. Chamarbaughwala Rd., Parel, Bombay-400012; The P. S. G. School of Social Work, P.O., Peelamedu, Coimbatore; The National Institute of Social Sciences, 24 Willington Rd., Richmond Town, Bangalore 560025; The Institute of Social Services, School of Social Work, Mangalore 575001; St. Xavier's Institute of Labour Relations, Jamshedpur 831001; Institute of Social Sciences, University of Agra, Agra 282001; The Department of Sociology and Social Work, Andhra University, Waltair; Department of Labour and Social Welfare, Patna University, Patna; University School of Social Sciences, Gujarat University, Ahmedabad; The School of Social Work, Indore Christian College, Palasia, Indore 452001; The Udaipur School of Social Work, Saletia Ground, Udaipur 313001; The Department of Social Work, Sacred Heart College, Thevara, Ernakulam-682003, Kerala; The Xavier Institute of Social Services, St. Xavier's College, Ranchi 834001, Bihar.

Undergraduate Schools: Schools for teaching Social Work at the undergraduate level, are slowly opening up — such as the Institute of Social Service, Nirmala Niketan, 38, New Marine Lines, Bombay-400001; Karve Institute of Social Services in Pune; Andhra Pradesh School of Social Work, Red Hills, Hyderabad at the undergraduate level — by the Andhra Pradesh State Branch of Indian Council of Social Welfare; Tripude Institute of Social Work, Civil Lines, Sadar, Nagpur 440001; and Visva Bharathi Palliseksha Sadam, P.O. Sriniketan, Dist. Birbhum, West Bengal.

VOLUNTARY AGENCIES

Child Welfare : Balkan-ji-Bari, Juhu Rd., Santa Cruz (West), Bombay-400054; Sneh Sadan, Andheri East, Bombay-400060; Indian Council for Child Welfare, 4, Rouse Ave., New Delhi 110001; Indian Council for Child Education, Sumanas, 39, Edward Elliots Rd., Madras 600004.

Youth Welfare : Y.M.C.A. (5, Rssnel St., Calcutta-700016); Y.W.C.A. (Parliament St., New Delhi 110001); Bharat Scouts and Guides Association (Regal Bldg., Parliament St., New Delhi 110001); Bharat Sevak Samaj (27-A, Theatre Communication Bldgs., Connaught Place, New Delhi 110001); Youth Hostels Association (2, East Park Rd., New Delhi-110005); All India Boy Scouts Association (7, Jungpura, Mathura Rd., New Delhi-110014).

Women's and Family Welfare : All India Women's Conference (C/o Family Planning Association of India, Metropolitan House, D. Naoroji Rd., Bombay-400001); National Council of Women in India (Town Hall, Bombay 400001); Bombay Mothers and Children Welfare Society (10, B.D.D. Chawl, Delisle Rd., Bombay 400011); Family Welfare Agency (10, B.D.D. Chawl, Delisle Rd., Bombay-400011); Kasturba Gandhi National Memorial Trust (Kasturba Gram, P.O. Indore, Madhya Pradesh).

Health: Tuberculosis Association of India (20, Red Cross Rd., New Delhi-110002); Indian Red Cross Society (20, Red Cross Rd., New Delhi-110002); All India Cancer Prevention Society (Tata Memorial Hospital, Parel, Bombay-400012); Hind Kusht Niwaran Sangh (Red Cross Rd., New Delhi-110001); Akhil Bharat Sharirik Sikshan Maha-Mandal (Tilak Rd., Nagpur 440001, Maharashtra); Indian Medical Association (Indraprastha Marg, New Delhi-110001).

Rehabilitation of the Handicapped : Convention of the Teachers of the Deaf in India (50, Bondel Rd., Ballygunj-700019, Calcutta); All India Lighthouse for the Blind (89, Elliot Rd., Calcutta); National Association for the Blind (Jehangir Wadia Bldg., Mahatma Gandhi Rd., Bombay-400001); Association of the Friends of the Mentally Ill (Near Delisle Rd. Police Station, Delisle Rd., Bombay-400011); Cheshire Home (Andheri East, Bombay-400060); All India Blind Relief Society (11-F, Lajpatnagar, New Delhi-110024); The Fellowship of the Physically Handicapped (Hornby Vellard, Haji Ali Park, Bombay-400034); The Indian Council for Mental Hygiene (Cambatta Chambers, Eros Building, 42, Queen's Rd., Bombay 400020).

Rural Welfare : Bureau of Rural Development Indian Council of Social Welfare (175, D. Naoroji Rd., Bombay-400001); Sarva Seva Sangh (K33-4, Golghar, Varanasi, U.P.); India Village Service (I.V.S. House, Marhera, Etah Dist., U.P.).

General Social Welfare : Servants of India Society (Pune-411004); Ramkrishna Mission (Belur, Howrah Dist.); Gandhi Memorial Fund (5, Mansingh Rd., New Delhi); Salvation Army (Moreland Rd., Bombay-400008); Friends' Service Unit (1, Upperwood St., Calcutta-700016); All India Seva Samiti (Seva Samiti Bldg., Allahabad 211001).

Rural Women's Welfare: Bharatiya Grameen Mahila Sangh (9/104 Jamnabar Hutments, Block II, Mansingh Rd., New Delhi 110011).

Relief and Rehabilitation : United Council of Relief and Welfare (Rashtrapati Bhavan, New Delhi 110004).

Social Education : Indian Adult Education Association (17-B, Indraprastha Marg, New Delhi 110001); Jamia Milia (Jamia Nagar, New Delhi-110025); Literacy House (Lucknow 226001).

Welfare of Under-Privileged Groups : Harijan Sevak Sangh (Kingsway, Delhi 110009); Bhartiya Adimjati Sevak Sangh (Kingsway, Delhi 110009).

Co-ordination : The Indian Council of Social Welfare (Central Office : 117, D. Naoroji Rd., Bombay-400001).

International Welfare Agencies in India : The following are some of the International agencies and organisations working in the country: International Council on Welfare (Regional Office for South East Asia and Western Pacific, 175, D. Naoroji Rd., Bombay-400001); Asia Foundation (Post Box 149, New Delhi-110001); Ford Foundation (32, Ferozeshah Rd., New Delhi 110001); World Health Organisation (S.E.A. Office, Indraprastha Estate, Ring Rd., New Delhi 110001); Rockefeller Foundation (20/39, Diplomatic Enclave, Kautilya Marg, New Delhi 110021); International Labour Organisation, Indian Branch (7, Sardar Patel Marg, New Delhi-110001); International Union for Child Welfare (Consultant for Far East Asia, 4, Rouse Ave., New Delhi-110001); United Nations International Children's Emergency Fund (UNICEF House, 11, Jor Bagh, New Delhi 110003); United Nations Educational, Scientific and Cultural Organisation (40, B. Lodi Estate, New Delhi-110003); Food and Agriculture Organisation, UNO (1, Ring Rd., Kilokri, New Delhi 110014); Cleveland International Programme for Youth Leaders and Social Workers Inc. (12, Hailey Rd, New Delhi 110001); The American Peace Corps in Delhi (5, Ring Rd., Kilokri, New Delhi-110014).

Other Agencies : Youth Welfare Association, 29-24, Shakti Nagar, Delhi-110006; Gyan Prakash Yuvak Sangh, 653, Chuna Kankar, Mathura-281001, U.P.; Social Service League, Indraprastha College, Alipur Rd., Delhi 110006; Society for the Education for the Crippled (Child and Adult), Chunilal Mehta Hut, Mahatma Gandhi Rd., Bombay-400001; Association for Moral and Social Hygiene, Barrack No. 4, D. Wacha Rd., Bombay-400001; All India Mass Education Society, Gonda 271001.

Bhoodan Movement : Special mention must be made of the Bhoodan Movement initiated by Acharya Vinoba Bhave, one of the ablest disciples of Gandhiji. He is effecting a silent but nevertheless remarkable social revolution within the country by the voluntary gift of land (Bhoodan), wealth (Sampattidan), labour (Shramadan) and life (Jeevandan).

THE SALVATION ARMY

For better administration the country is divided into 5 territories each under a Territorial Commander and one smaller command.

The work done is evangelical, social, medical and educational. The five territories are :

North Eastern India Territory : Territorial Headquarters, The Salvation Army, 37 Lenin Saranee, Calcutta 700013.

Madras and Andhra Territory : Territorial Headquarters, The Salvation Army, 1C, Ritherdon Rd., P.O. 453, Vepery, Madras-600007.

South East India Territory : Territorial Headquarters, The Salvation Army, Vetturnimadam, Nagercoil 629003.

South West India Territory : Territorial Headquarters, The Salvation Army, Kowdiyar, Trivandrum-695003.

Western India Territory : Territorial Headquarters, The Salvation Army, Moreland Road, Byculla, Bombay-400008 B.C.

INSTITUTIONS FOR THE HANDICAPPED IN INDIA

INSTITUTIONS FOR THE BLIND

ANDHRA PRADESH

Andhra Blind Model School, Rest House Road, Bheemavaram, West Guntur Dist.; **Bapuji Blind School,** Akkalavari Street, Chinaravuru, Guntur Dist.; **Disabled Blind Children's Home and School,** Amravati Road, Guntur; **Government School for the Blind,** Cuddapah; **Government School for the Blind,** Malakpet, Hyderabad; **Indian Conference of Social Work,** Red Hills, Hyderabad; **Lutheran School for the Blind,** Narsaraopet, Guntur; **National Association for the Blind,** B6/74, Vigyanapuri, Hyderabad 7; **United Lutheran Church Mission Blind School,** Rentachintalal, Guntur Dist.

ASSAM

Shrimanta Shankar Mission Blind School, Nowgong.

BIHAR

Blind Relief Society, Dhanbad; **Blind School,** Muzaffarpur; **Maharani Adhirani Kameshwari Priya Andha Vidyalaya,** Darbhanga; **Netraheen Chatra Vidyalaya,** Mandichak, Bhagalpur; **Netrabihin Kalyan Sangh and Nissahaya Balak Grih,** Dayal Niwas, Sinha Library Road, Patna 1; **Patna Blind School,** P.O. Kadamkuan, Patna 3; **Premadevi Blind School,** Topkhana Bazar, Monghyr; **School for the Blind,** Bhulinagar, Dhanbad; **St. Michael's School for the Blind,** Ranchi; **S.P.G. Mission Blind School,** Ranchi.

DELHI

Andh Prashikshan and Punarwas Kendra, C-20, Model Town, Delhi 9; **Blind Relief Association,** Kitchlew Marg, New Delhi 11; **Blind Social Welfare Society,** 96, Panch Kuin Road, New Delhi; **Delhi Public Library (Braille Section),** 425, Lakshmibhai Nagar, New Delhi 5; **Institution for the Blind,** Panch Kuin Road, New Delhi; **National Society for Prevention of Blindness,** C/o Dr. L. P. Agarwal, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 16; **Rashtriya Virjanand Andh Kanya Vidyalaya,** New Rajinder Nagar, Shankar Road, New Delhi.

GUJARAT

Adult Training Centre for the Blind, University Campus, Ahmedabad 9; **Ambaben Maganlal Andhyan Shala,** Athwa Lines, Surat; **Andh Kanya Prakash Grih (Light House for Blind Girls),** Memnagar, Ahmedabad 9; **Andh Mahila Vikas Grih,** Gondal Road, Near Swami Narayan Gurukul, Rajkot; **Blind**

Men's Association, University Campus, Navrangpura, Ahmedabad 9; **Blind Men's Association** (Gujarat State Branch), C/o Adult Training Centre for the Blind, University Campus, Ahmedabad 9; **Dohad Andh Jan Vidyalaya,** Dohad; **Gujarat Rajya Nayanjot Samiti,** Ahmedabad 1; **Government School for the Blind,** Madan Zanpa Road, Vadodara; **Kalpana Nursery School and Home for Deaf, Dumb and Blind,** C/o School for Deaf, Dumb and Blind, Navrangpura, Ahmedabad 9; **M. F. Doshi Andh Vidyalaya,** Near Kasturba Society, Surendranagar; **National Association for the Blind** (Gujarat State Branch), Near ATIRA, Navrangpura, Ahmedabad 9; **School for the Blind,** Visavadar, Junagadh, Saurashtra; **Shri Andh Sarvodaya Mandal,** Dhebar Road, Rajkot 2; **Shri Bharatiya Pragna Chakshu Gurukul,** Porbandar; **Tata Agricultural & Rural Training Centre for the Blind,** Phansa.

HARYANA

Blind Relief School, Hissar; **Government Institute for the Blind,** Panipet; **Home for the Blind,** Hissar; **S. D. Institute for the Blind,** Ambala Cantt.; **Training Centre for the Blind,** Sonepat.

JAMMU & KASHMIR

Residential School for the Blind, Ved Mandir, Jammu; **Shri Abedananda Home for the Blind,** Srinagar.

KERALA

Govt. School for the Blind, Cannanore; **Kerala Blind Welfare Association,** Mankada, Angadipuram; **Light for the Blind,** Varkala, L.M.S. Compound, South Kerala Diocese, Trivandrum; **National School for the Blind,** Govt. Ophthalmic Hospital, Trivandrum; **Rotary School for the Blind,** Alwaye; **School for the Blind,** Kunnamkulam, Trichur; **School for the Blind, Deaf & Dumb,** Trivandrum; **School for the Blind,** Olessa, Kottayam; **School for the Blind,** U.C.C. Post, Alwaye.

MADHYA PRADESH

Child Guidance Clinic & Handicapped Children's Colony, 102, Cherital, Jabalpur; **Deaf, Dumb and Blind Vidyalaya,** Indore; **Free Institution for the Blind, Deaf and Dumb,** Shiv-vilas Palace, Indore; **Madhav Andh Ashram,** Lashkar, Gwalior; **Madhya Pradesh Welfare Association for the Blind,** 84, Bozanket Market, Pandey's Building, Indore 2; **School for the Blind,** C/o The Christian Hospitals and Dispensaries, Mungeli, Bilaspur District; **School for the Blind, Deaf and Mute,** 23, Marthand Chowk, Indore.

MAHARASHTRA

Andh Pragati Mandal, 52, B.D.D. Chawls, Worli, Bombay 18; **Blind Boys' Institute,** South Ambazari Road, Nagpur 3; **Blind Men's Association,** 81-A, Jal Darshan, Jagmohandas Marg, Bombay 6; **Blind Relief Association,** Congress Bhuvan, Bassein, Thana District; **Blind Relief Association,** 475/83, Kalbadevi Road, Bombay 2; **Blind Welfare Centre,** Shankar Building, Mastan Tank Cross Lane, Bombay 8; **Dadar School for the Blind,** 160, Dadasaheb Phalke Road, Dadar, Bombay 14; **Govt. Blind School,** Latur, Osmanabad District; **Government School for the Blind,** Bhandara; **Government School for the Blind,** Nasik; **Haji Allarakha Sonawala Andh & Anath Stree Ashram,** 37, Gilbert Hill, Dadabhai Road, Andheri, Bombay 58; **Happy Home and School for the Blind,** Near Lotus Cinema, Dr. Annie Besant Road, Bombay 18; **Industrial Home for Blind Women,** 160, Dadasaheb Phalke Road, Dadar, Bombay 14; **Industrial Institute for the Blind, Deaf & Dumb,** Near Tata Parsi Girls' High School, Nagpur; **Kishanlal Jalan Charity Trust,** 339, Kalbadevi Road, Bombay 2; **M. N. Banajee Industrial Home for the Blind,** 280, Swami Vivekananda Road, Jogeshwari, Bombay 60; **N.S.D. Industrial Home for the Blind,** 52, B.D.D. Chawls, Worli Bombay 18; **National Association of the Instructors of the Blind,** 22, Jal Bungalow, Arab Lane Corner, Grant Road, Bombay 8; **National Christian Council,** Nagpur; **Pragati Andh Vidyalaya,** 18, Narayana Nivas, Ghantali Colony, Nawpada, Thana; **Ramabai Mukti Mission,** Kedgaon, Poona; **School for the Blind,** Bodadi, Nanded; **Victoria Memorial School for the Blind,** 73, Tardeo Road, Bombay 34; **The Workshop for the Blind,** Dr. Annie Besant Road, Worli, Bombay 25.

MYSORE

Blind Relief Association, Bijapur; **Divine Light School for the Blind,** White Field, Bangalore; **Govt. School for Deaf and Blind Boys,** Mysore; **Govt. School for the Blind,** Hubli, Dharwar; **Mysore Welfare Association for the Blind,** 1623, 17th Cross, Second Main Road, Malleswaram, Bangalore 3; **School for the Blind,** Mysore; **Shri Ramana Maharshi Academi for the Blind,** 611, Garutman Park, Bangalore 4; **Vocational Institute for Women,** Mysore.

ORISSA

School for the Blind, Orissa State Council for Child Welfare, Bhubaneshwar.

PUNJAB

Andh Vidyalaya, Amritsar; **Bharatiya Andh Hitakarini Sabha,** 2212-13, Gurudwara Bldg., Amritsar; **Central Kalsa Orphanage and Surma Singh Ashram,** G. T. Road, Amritsar; **Home for the Blind,** Maheshchand City Library Road, Ferozepur; **Institute for the Blind,** Surma Singh Ashram, Amritsar.

RAJASTHAN

Blind School, Hati Pole, Motikund, Udaipur; **Govt. School for the Blind,** Adarshnagar, Ajmer; **Phiroze and Noshir Merwanjee Rehabilitation Centre for the Blind,** Mt. Abu; **Pragya Chaksh Sikshan Shansthan (Andh Vidyalaya),** Udaipur; **School for the Blind,** Bikaner.

TAMIL NADU

Blind Relief Association, 17, Ganga Shala, Pondicherry; **Blind Relief Association,** Fort Round Road, North Arcot District, Vellore; **Govt. School for the Blind,** Poonamalle, Chingleput Dist.; **Govt. School for the Blind,** Shivpet, Salem 2; **National Academy of Teachers of the Blind,** C/o School for the Blind, Palayamkottai, Tirunelveli 2; **National Association for the Blind,** 27/1, Mount Road, Nandanam, Madras 35; **Pilot Demonstration Rehabilitation Centre for the Blind,** Madras Medical College, Madurai 13; **Rehabilitation Home for the Blind,** Rajaji T. B. Sanatorium Compound, Tiruchirapalli; **Students Service for the Blind,** Madras Christian College, Tambaram; Chingleput Dist.; **School for the Blind and Deaf,** Cathedral Post, Madras 6; **School for the Blind,** Palayamkottai, Tirunelveli 2; **School for the Blind,** Swedish Mission Hospital, Tirupattur, Ramanathapuram Dist.; **School for the Blind,** Sir T. Desikachariar Building, Puttur, Tiruchirapalli; **St. Louis Institute for the Deaf and Blind,** Madras 20.

UTTAR PRADESH

Ahmedi School for the Blind, Civil Lines, Aligarh; **Allahabad School & Home for the Blind,** Lucknow; **Blind Association,** 96, Civil Lines, Gorakhpur; **Blind**

School, Bhadaini, Varanasi; **Blind Welfare Society,** 11/B, New Bhelpur Colony, Varanasi 1; **Central Braille Press,** Rajpur Road, Dehra Dun; **Govt. School for the Blind,** Lucknow; **Govt. School for the Blind,** Gorakhpur; **Indumati Andh Shishu Sharanalaya,** P. O. Tehri, Tehri-Garhwel Dist.; **Kashi Seva Samiti,** Varanasi; **Kunwarlal Singh Industrial School for the Blind,** Kucheri Road, Manipuri; **Madrasa Nabeena,** Nageena, Bijnor; **Model School for Blind Children,** Rajpur Road, Dehra Dun; **School for the Blind** (Andh Vidyalaya), 110/24, Nehru Nagar, Kanpur; **School for the Blind** (attached to the Eye Hospital), Sitapur; **Sharp Memorial School for the Blind,** Rajpur Road, Dehra Dun; **Shree Ajara Nand Andh Vidyalaya,** Sapt Sarovar, Hardwar, Saharanpur Dist.; **Training Centre for the Adult Blind,** Rajpur Road, Dehra Dun.

WEST BENGAL

Association for the Prevention of Blindness, 94, Chittaranjan Avenue, Calcutta; **Blind Boys' Academy,** Ramakrishna Mission Ashram, P.O. Narendrapur, 24 Parganas Dist.; **Blind Persons' Association,** 174, Shyam Prasad Mookerjee Road, Calcutta 26; **Calcutta Blind School,** P. O. Behala, Calcutta 23; **Light House for the Blind,** 174, Shyam Prasad Mookerjee Road, Calcutta 26; **Mary Scott Home for the Blind,** Kalimpong, Darjeeling Dist.; **National Association for the Blind,** 18, Netaji Subhash Road, Calcutta 1; **Ramakrishna Mission Ashram,** P. O. Narendrapur, 24 Parganas Dist.; **School for the Blind,** Swedish Mission, Cooch-Behar.

INSTITUTIONS FOR THE DEAF

ANDHRA PRADESH

Govt. School for the Deaf and Dumb, Kakinada; **Govt. School for the Deaf,** Malakpet, Hyderabad; **Training Centre for the Adult Deaf,** Malakpet, Hyderabad.

ASSAM

Bhawari Debi Sarawgi Deaf and Dumb School, Gauhati, Assam.

BIHAR

Kameshwaripriya Poor Home, Darbhanga; **Kshitish Deaf and Dumb School,** Nibaranpur, Hinoo P. O., Ranchi; **Patna Deaf and Dumb School,** Nala Road, Patna.

DELHI

All India Deaf and Dumb Society, 79, Kamala Market, Asaf Ali Road, New Delhi 1; **All India Federation of the Deaf and Dumb,** 39, Theatre Communication Bldg., Connaught Place, New Delhi; **Delhi Deaf and Dumb Association,** 92, Kamala Market, New Delhi; **Govt. Lady Noyu School for the Deaf and Dumb,** Ferozeshah Kotla Road, New Delhi.

GUJARAT

Government Deaf and Dumb School, Junagadh; **Govt. School for the Deaf and Mutes,** Pilapiganj, Mehsana; **Govt. School for Deaf, Mutes and Blind,** Matiya Bhavan, Gondal Road, Rajkot; **Muk Vidyalaya** (Deaf and Dumb School), Vadodara; **School for the Deaf Mutes,** Ashram Road, Navrangpura, Ahmedabad 9; **School for the Blind, Deaf and Crippled Children,** Mandvi, Kutch Dist.; **Shri Khimchand Laxmichand Deaf and Dumb School,** Chanda Vila, Rewapuri Road, Bhavnagar.

KERALA

Diocesan Deaf and Dumb School, Tiruvella, Alleppey Dist.; **Govt. School for Deaf Mutes,** Kanniampuram, P. O. Ottapalam, Palghat Dist.; **Govt. School for the Blind, Deaf and Dumb,** Bhaktivilas, Trivandrum; **School for the Deaf and Mutes,** Chunargad; **School for the Blind, Deaf and Dumb,** Kunnamkulam, Trichur Dist.

MADHYA PRADESH

Child Guidance Clinic and Home for the Handicapped Children, 102, Charital, Jabalpur; **Free Institutions for the Blind, Deaf and Dumb,** Shiv Vilas Palace, Indore; **Govt. Deaf and Dumb School,** Bhopal; **School for Blind, Deaf and Mutes,** 28, Martand Chowk, Indore.

MAHARASHTRA

The Bharat Muk Vidyalaya, Gandhi Baug, Nagpur; **Bhonsle Deaf and Dumb School,** North Ambazari Road, Near Sankar Nagar, Nagpur; **Bombay Deaf and Dumb Society,** C/o United Asia, 12, Rampart Row, Bombay 1; **Bombay Deaf and Dumb Institute,** Kakadwadi, Bombay 4; **Bombay Institution for the Deaf, Mute,** 88, Nesbit Road, Mazagaon, Bombay; **Deaf and Dumb School,** Station Road, Thana; **Deaf and Dumb School,** 21/96, Morarjee Peth, Sholapur; **Deaf and Dumb School,** Navi Peth, Near Prabhat Talkies, Sholapur; **Deaf, Dumb and Blind Industrial Institute,** Near Tata Parsi Girls' High School, Nagpur; **Govt. School for the Deaf,** Gondalpada, Alibag, Kolaba; **Govt. School for Deaf and Dumb,** Akola; **Education, Audiology and Research Centre,** 'Punam', 67, Nepean Sea Road, Bombay 6; **India Deaf Society,** C/o C. H. Rajwadkar, Bharda New High School, Bombay 1; **Industrial Institute for the Blind, Deaf and Dumb,** North Ambazari Road, Nagpur; **Model Deaf and Dumb Children's School and Home,** 165, D. Railway Lines, Sholapur; **Prof. Date's School for Deaf Mutes,** Thakurdwar, Bombay 2; **Stephen School for the Deaf,** 15, Dady Seth Road, Chowpatty, Bombay 7; **Tilak College of Education Vinayakumar Ramniwas Ruia Muk Badhir Vidyalaya,** Tilak Road, Poona; **Vishnu Sikshan Prasarak Mandals Deaf and Dumb School,** 1520, Shivaji Peth, 'A' Ward, Kolhapur.

MYSORE

Govt. School for the Deaf and Blind Boys, Mysore; **Municipal Deaf and Dumb Institute,** Bangalore; **School for Deaf and Blind Boys,** Tilak Road, Mysore; **School for Deaf Girls,** Gulbarga, Mysore.

ORISSA

All India Deaf and Dumb School, Bhubaneshwar, **Muk Badhir Vidya Bhavan,** Bhubaneshwar.

PUNJAB

Deaf and Dumb School, Burton Park, G. Y. Road, Jullundur City; **Deaf and Dumb School,** Amritsar; **Punjab Deaf and Dumb Organisation,** E127, Pucca Brug, Jullundur; **Punjab School for Deaf and Dumb,** 87, Kapurthala Road, Jullundur City.

RAJASTHAN

Badhir Vidyalaya for the Deaf, Kutchery Road, Ajmer; **Seth Anandlal Poddar Institute for the Deaf and Dumb,** Jaipur.

TAMIL NADU

Deaf School, Manamadurai, Ramanathapuram Dist.; **Florence Swainson School for the Deaf,** Palayamkottai, Tirunelveli Dist.; **Municipal Deaf and Dumb School,** Karaikudi, Ramanathapuram Dist.; **School for the Deaf and the Blind,** Teynampet, Cathedral P.O., Madras 6; **School for the Deaf (C.S.I.),** 148, Santhome High Road, Mylapore, Madras; **Shanti Samarasa Deaf and Dumb School,** Kalyanipuram Sivasailam, Tirunelveli.

UTTAR PRADESH

Deaf and Dumb Institute, Mohalla Kachcha Katra, Shahajahanpur; **Deaf and Dumb School,** Bahar Khande Rao Gate, Jhansi; **Deaf and Dumb School,** D/47-196-97, Rampura, Varanasi; **Deaf and Dumb School,** Aishbagh, Lucknow; **Deaf and Dumb School,** Meerut; **Deaf and Dumb School,** Muraska Hills, Alinagar, Gorakhpur; **Goonga Baharen ka Vidyalaya,** 104 A/266, M. Ramabagh, Kanpur; **Govt. Deaf and Dumb School,** Vijainagar Colony, Agra; **Nanhi Duniya Deaf and Dumb School,** 10, Inder Road, Dehra Dun; **School for Deaf, Dumb and Blind,** 110/26, Nehru Nagar, Kanpur; **Training College for Teachers of the Deaf,** Aishbagh, Lucknow; **U.P. Deaf and Dumb Institute,** 12A, Nawab Yusuf Road, Allahabad; **Voluntary School for the Deaf and Dumb,** Puranimandi, Saharanpur.

WEST BENGAL

Bengal Deaf and Dumb Association, 28, Badur Begam Street, Calcutta 9; **Calcutta Deaf and Dumb School,** 293, Upper Circular Road, Calcutta 4; **Deaf and Dumb School,** Dum Dum, Calcutta; **Maharani Nilima Prabha Deaf and Dumb School,** P.O. Khagra, Murshidabad; **Manbhum Muk Badhir Vidyapith,** Purulia; **Oral School for Deaf Children** C/o Dhun D. Adenwalla, Sheldon House, 4/2, Lansdowne Road, Calcutta 20; **Shambazar Deaf and Dumb School,** 265/19, Gopal Lal Thakur Road Calcutta 36; **Suri Deaf and Dumb School,** P.O. Suri Birbhum.

INSTITUTIONS FOR MENTALLY RETARDED

ANDHRA PRADESH — Nil.

BIHAR

The Central Nursing Home, 56, Circular Road, Lalpur, Ranchi.

DELHI

Bala Vihar Children Home, 2B/9, Model Town, Delhi 9. **Model School,** Kasturba Niketan, Lajpat Nagar, New Delhi; **Occupational Therapy Home for Children,** 60/18, W.E.A. Ramjas Road, Karol Bagh, New Delhi; **Occupational Therapy Institute,** 4-A, Rouse Avenue Lane, Mathura Road, New Delhi; **School and Home for Mentally Retarded Persons,** Anand Parbat, New Delhi; **School for Mentally Deficient Children,** All India Women's Council Building, 6, Bhagwandas Road, New Delhi; **Vocational Training Workshop for Mentally Retarded Children,** 12, Jaswant Singh Road, New Delhi.

GUJARAT

Home for Mentally Deficient Children, Near Jain Tower, Rajkot; **Sharada School for Mentally Retarded Children,** Jamsi Villa, Ashram Road, Opp. Nehru Bridge, Ahmedabad 9; **Shishu Kunj,** Near Vithal Wadi, Navrangpura, Ahmedabad 9.

MAHARASHTRA

Bhagini Seva Mandir, Kumarika Stree Mandal Special Class, Sarojini Road, Vile Parle, Bombay; **"The Havens" Residential School for Mentally Handicapped Children,** Char Bungalow Road, Versova, Bombay; **Home for Mentally Deficient Children,** Mankhurd, Bombay 88; **Home for the Aged and Handicapped,** Untkhana, Medical College Road, Nagpur; **Jankiram Vidyalaya,** Ram Niwas, Ground Floor, Bhalchandra Road, Matunga, Bombay; **Karuna Vidyalaya,** St. Xavier's Primary School, Church Road, Vile Parle (West), Bombay 57; **Kasturba Nursery,** Adenwalla Mansion, Chowpatty, Bombay 7; **Maharashtra State Women's Council,** Raveline Street, Bombay 1; **'Nandanvan' School for the Handicapped,** Matru Seva Sangh, North Ambazari Road, Sitabaldi, Nagpur; **School for Children in Need of Special Care,** Sewri Hill, Sewri Road, Bombay; **School for Handicapped, Mentally Retarded Children,** Gujarat Research Society, Sansodhan Sadan, 5th Road, Khar, Bombay 52; **School for the Mentally Handicapped,** 'Kamayani', 1187/64, J. Maharaj Road, Poona 5; **Shashi Mangalyam,** Opp. Theosophical Colony, 10-11, Juhu Road, Santa Cruz (West), Bombay 58.

MYSORE

Association for the Mentally Handicapped, No. 8, Ali Akbar Road, Bangalore.

PUNJAB

Govt. Institute for E.S.N. Children, Dept. for Mentally Handicapped Children, Govt. Post — Graduate Basic Training College, Chandigarh.

TAMIL NADU

The Bala Vihar, Halls Road, Kilpauk, Madras.

UTTAR PRADESH

The Allahabad Y.M.C.A. Opportunity School for Sub-normal Children, 18, Strachey Road, Allahabad. **The Kashi Vidyapith,** G. C. M. School for Mentally Retarded Children, Varanasi.

WEST BENGAL

Ashutosh Institution, 14, Rahim Ostegar Road, West of Jadavpur Park, Calcutta 45; **Bodhi Peet,** 20, Hari Nath Dey Road, Calcutta 9; **Institute for the Mentally Deficient,** Lloyd Park, Calcutta 24.

INSTITUTIONS FOR THE ORTHOPAEDICALLY HANDICAPPED (Preliminary)

ANDHRA PRADESH

Aram Ghar, Indian Conference of Social Work, Red Hills, Hyderabad ; **Bharat Sevak Samaj** (Mahila Branch), Jagarlamudi, Tenali Taluk, Guntur ; **Crippled Children School and Hostel,** Amravati Road, Guntur ; **Home for the Disabled,** Bansilalpet, Secunderabad ; **Home for the Disabled,** Karwan Mangalhat, Hyderabad ; **Rani Chandramani Devi Children's Hospital,** Rehabilitation Centre for Handicapped Children, Laxmi Mahal, Vishakhapatnam ; **Shanti Ashram** (Hostel for Crippled Children), Waltair.

BIHAR

Benilal Memorial Children's Hospital, P. O. Bairaganie, Muzaffarpur ; **The Crippled Children Institute,** Panchbati Hostel, Patna 3.

DELHI

Indian Association of the Physically Handicapped, 32, Golf Link Road, New Delhi 3 ; **Occupational Therapy Home,** 7/18, W.E.A., Ramjas Road, Karol Bagh, New Delhi ; **Occupational Therapy Institute,** 8A, Rouse Avenue Lane, Mathura Road, New Delhi.

GUJARAT

Apang Manav Mandal, Revabhai Dharamsala Compound, Madanpur, Ahmedabad; **Home for the Crippled Children,** Vadodara ; **School for Crippled Children, Blind, Deaf and Dumb,** Mandvi, Kutch.

KERALA

CARE Home for Disabled Children, Pallithottom, Quilon ; **CARE Home for Disabled Children,** Punkunnam, Trichur.

MADHYA PRADESH

Child Guidance Clinic and Handicapped Children Colony, 102, Cherital, Jabalpur ; **Orthopaedically Handicapped Children's Home,** Bungalow No. 6, St. No. 5, Manorama Gunj, Indore.

MAHARASHTRA

Fellowship of the Physically Handicapped, Hornby Vellard, Mahalaxmi, Bombay ; **Govt. Home for the Crippled Children,** Kathole Sadan, Ramdaspeth, Nagpur ; **Govt. Home for the Crippled Children,** Near Water Post, Aurangabad ; **Home for the Aged and Handicapped,** Untkhana, Medical College Road, Nagpur 2 ; **Nagpur Association for Rehabilitation of Children with Orthopaedic Disabilities,** NARCOD, Ramdaspeth, Nagpur ; **School for the Bed-ridden Children in the Bai Jerbai Wadia Hospital,** C/o Tata Institute of Social Sciences, Sion Trombay Road, Chembur, Bombay ; **Society for the Crippled Children,** Children's Orthopaedic Hospital, Haji Ali Park, Mahalaxmi, Bombay 400011 ; **Society for the Welfare of Physically Handicapped,** Wanori, Pune.

MYSORE

Association of the Physically Handicapped, C/o Kalyan Quarters, 12, Jayachamarajendra Road, Bangalore 560002 ; **Karuna Griha,** Janapada Seva Trust, Melkote Mandya Dist. ; **Mysore Mahila Vidyapeeth** (Home for the Handicapped Girls), Hubli, Dharwar Dist.

PUNJAB

All-India Pingalwara Society, Amritsar ; **Apahaj Ashram,** Burton Park, Jullundur City ; **Saket Home for the Orthopaedically Handicapped Children,** Chandi Mandir, Ambala Dist.

TAMIL NADU

Iswari Prasad Dattatreya Orthopaedic and Educational Centre, C/o Andhra Mahila Sabha Nursing Home, No. 3, Adayar Bridge Road, Madras 600028 ; **Rotary Club of Kumbakonam,** Kumbakonam ; **The Society for the Aid of Handicapped Children,** C/o Stanes High School Premises, Coimbatore 1 ; **Society for the Welfare of the Handicapped,** 24, Hills Road, Egmore, Madras 600008.

UTTAR PRADESH

Handicapped Children's Relief Society, C/o Rotary Club, Rahe Raza, Rampur ; **The Handicapped Clinic,** 16, A. P. Sen Road, Lucknow.

WEST BENGAL

Hospital for Crippled Children, B. T. Road, Bon Hoogly, Calcutta 700035 ; **Welfare Association for the Physically Handicapped,** 47/1A, Palm Avenue, Calcutta 700019.

INSTITUTIONS SERVING LEPROSY PATIENTS (Preliminary)

ANDHRA PRADESH

Bethesda Leprosy Hospital, Narasapur, W. Godavari Dist. ; **Evangeline Booth Leprosy Hospital,** P.O. Box 10, Bapatla, Guntur Dist. ; **Gandhi Memorial Leprosy Foundation Unit,** Chalakapalle, via Bobbili, Srikakulam Dist ; **Health Education Unit,** Cuddapah ; **Health Education Unit,** Rajahmundry ; **Hospital Branch** (Mission), Akiveedu, W. Godavari Dist.; **Krupapalle Leprosy Home,** Kodur, Cuddapah Dist. ; **Leprosy Church,** Tanaku, W. Godavari Dist. ; **Leprosy Control Unit,** Chalakapalle, via Bobbili, Srikakulam Dist. ; **Leprosy Home,** Salur Post, Srikakulam Dist. ; **Leprosy Home,** Vijayanagaram, Vishakapatnam Dist. ; **Leprosy Investigation and Treatment Centre,** Zahirabad, Bidar ; **Srikakulam Leprosy Home,** Ramachandrapuram, E. Godavari Dist. ; **State Leprosy Control Officer,** C/o Directorate of Medical Services, Sultan Bazar, Hyderabad ; **Victoria Leprosy Hospital,** Dichapalli, Nizamabad Dist.

ASSAM

Leprosy Colony, Santipara, Bongaigaon, Goalpara Dist. ; **Mary Kirby Berry Memorial Clinic,** Jorhat, Borbheta P.O. ; **Shrimant Shankar Mission,** Nowgong; **Special Leprosy Officer,** C/o A.D.P.H.'s Office, Gauhati.

BIHAR

Bhagalpur Leprosy Asylum, Old Bhagalpur; **Brambi Leprosy Institution,** Brambi, Ranchi ; **Centre Kushta Seva Samiti,** Kapasia, Kawakole, Gaya ; **Clinic of Hiranpur,** Dhorompur, Barharwa Dist. ; **Gaya Leper Asylum,** Gaya ; **Kaparia Leprosy Centre,** Kawakole, Gaya Dist. ; **Kawakole Block S.E.T. Unit,** Nawada Sub-Division, Gaya ; **Kushta Sevashram,** Marina, Saran Dist. ; **Kushta Seva Ashram,** Merwa, Saran Dist. ; **Kushta Seva Samiti,** Kapasia, Kawakole, Gaya; **Laman Leprosy Hospital,** Monghyr; **Leprosy Asylum,** Gaya ; **Leprosy Relief Association,** Dhanbad ; **Mission to Lepers,** Leprosy Home, Bhagalpur, ; **Mission to Lepers,** Leprosy Home, Muzaffarpur ; **New Leper Asylum,** Bhagalpur ; **Rajkumari Kushtadam,** Deoghar ; **Saldaha Leprosy Colony,** Saldaha, Majul Pahadi, Santal Pargana.

DELHI

Catholic Hospital Association, Cathedral Cottage, Alexandra Place, New Delhi 110001; **Hind Kusht Nivaran Sangh,** Red Cross Road, New Delhi 1; **Kushtarogi Seva Samiti,** 15, Hardinge Avenue, New Delhi.

GUJARAT

Ansuya Leprosy Hospital, Sinor Taluka, Vadodara Dist.; **Anti-Leprosy Association,** Bharuch; **Anti-Leprosy Association,** Vadodara; **Ashram Leprosy Hospital,** Opp. Sardesais, Bilimora; **Gandevi Sahakari Samaj Seva Mandal,** Gandevi, Valsad; **Kagrapeth Leprosy Hospital,** Ahmedabad; **Kushta Nivaran Dham,** Bhavnagar; **Kushta Nivaran Mandal,** Navsari; **Leprosy Hospital,** Junagadh; **Leprosy Control Units,** Valsad; **Parvatibai Leprosy Infirmary and Lady Wilson Leprosy Clinic,** Surat; **Rev. Sister Agnes Kagrapeth Leprosy Hospital,** Ahmedabad; **Shri Menji Pathraj Kushta Nivaran Dham,** Bhavnagar.

HARYANA

Leprosy Home, Ambala.

HIMACHAL PRADESH

Leprosy Centre, Mashobra, Simla.

KERALA*

Chevayar Leprosy Home, Mission to Lepers, Kohzikode; **Damien Leprosy Institute,** Kozhukully, Trichur; **Holy Cross Convent,** Kottayam; **Noornad Leprosy Sanatorium,** Noornad; **Poor Leprosy Home,** Green Garden, Shertallai; **The Salvation Army Evangeline Booth Leprosy Hospital,** Puthenkurisu.

MADHYA PRADESH

Bethesda Leprosy Home and Hospital, Champa, Dist. Bilaspur; **Chandkhuri Leprosy Hospital and Home,** P.O. Baitalpur, Bilaspur; **Govt. Leprosy Home and Hospital,** Raipur; **Henderson Memorial Leper Hospital,** Dhar; **Leprosy Home and Hospital,** Rajnandgaon, Durg; **Leprosy Home and Hospital,** Shantipur P.O., Raipur; **Visarjan Ashram,** Anda, Durg.

MAHARASHTRA†

Acworth Leprosy Home, Wadala, Bombay 500031; **Anandwan Maharogi Seva Samiti,** Warora, Chanda Dist.; **Dattapur Leprosy Colony,** Amravati Post, Wardha; **Gandhi Memorial Leprosy Foundation,** Wardha; **Hind Kushta Nivaran Sangh,** Red Cross Bldg., 141, Mint Road, Bombay 400001; **Kusht Pidit Navjeevan Seva Sangh,** Thana; **Leprosy Hospital,** Poladpur, Kolaba Dist.; **Leprosy Hospital,** Nasik; **Leprosy Clinic,** Allipur, Chanda Dist.; **Leprosy Committee,** 18, Wellesley Road, Pune 1; **Leprosy Health Education Unit,** C/o Director of Public Health, Pune; **Leprosy Section,** Skin Dept., K.E.M. Hospital, Parel, Bombay 400012; **People's Medical Hall,** Jaya Mandir, Wardha; **Plastic Surgery Unit,** J.J. Group of Hospitals, Byculla, Bombay 400008; **Richardson Leprosy Hospital,** Miraj, Sangli; **Skin Dept.,** Sassoon Hospital, Pune; **St. Andrew's Leprosy Clinic,** Kagal, Kolhapur Dist.; **Vidarbha Maharogi Seva Mandal,** Amravati.

MANIPUR

Baptist Mission Dispensary, Lungleh, S. Mizo; **Leprosy Centre,** Bishenpur; **Leprosy Centre,** Imphal; **Leprosy Centre,** Jamenglog; **Leprosy Centre,** Thombal; **Leprosy Hospital,** Kongpokpi.

MYSORE‡

Central Leprosarium, Magadi Road, Bangalore 560002; **Hind Kusht Nivaran Sangh,** Mangalore; **Holdsworth Memorial Hospital,** Mysore City; **Khangaon Kusht Nivaran Samiti,** Gokak, Belgaum; **Krupalaya Dispensary,** Guledgud, Bijapur; **Leprosy Clinic of Kasthur,** Hadya, Mysore; **Leprosy Dispensary,** Kasthur, Mangala, Chamarajnagar; **Leprosy Hospital,** Belgaum; **Mrs. Esther Muirhead Leprosy Orgn.,** 10A, Mugrath Road, Bangalore; **Navajeevan Nilayam,** Vavathur Road, Bangalore; **Silver Jubilee Leprosy Hospital,** Sankeshvar, Belgaum.

ORISSA

Hatibany Leprosy Colony, Sambalpur; **Leprosy Asylum,** Baripada, Mayurbhanj; **Leprosy Clinic,** Hatigarh, Balasore.

PUNJAB

Leprosy Home, Palampur, Kangra Dist.; **Leprosy Home and Hospital,** Sabathu, Simla; **Leprosy Home and Hospital,** Tarn Tarn, Amritsar.

RAJASTHAN

All Saint's Health Centre, Kherawa, Via Udaipur.

TAMIL NADU

Central Leprosy Teaching and Research Institute, Tirumani, Chingleput Dist.; **C. S. I. Leprosy Centre,** Wandiwash, N. Arcot; **Dayapuram Hospital,** Manamadurai, Madurai; **G. D. M. Dispensary,** Kollegal, Coimbatore; **German Leprosy Centre,** Chetput, *via* Polur, N. Arcot Dist.; **Govt. Leprosy Centre,** Polambakkam, Maduranthakam, Chingleput Dist.; **Hand Research Unit,** Christian Medical College & Hospital, Vellore; **Health Education Unit for Leprosy§,** Thiruchirapalli Dist.; **Hind Kusht Nivaran Sangh,** 58B, Edward Elliot's Road, Mylapore, Madras 600004; **Leprosy Control Unit,** Arkonam; **Leprosy Control Unit,** Rasipuram; **Leprosy Home and Hospital,** Vadathorasalur, Tyagadrug, S. Arcot Dist.; **Leprosy Relief, Control and Eradication,** Deenabandhupuram, N. Arcot Dist.; **Leprosy Relief and Control Scheme,** Walajah Taluq, Ranipet, N. Arcot Dist.; **Leprosy Office,** Tirukolur, S. Arcot Dist.; **Memorial Leprosy Hospital,** Neyyoor Colachel, Kanyakumari Dist.; **Mission Hospital,** Kolanjunai, *via* Saligramam, Ramanathapuram Dist.; **Mobile Dispensary,** Tambaram, Chingleput Dist.; **Sacred Heart's Hospital,** Sakkottai, Kumbhakonam, Tanjore Dist.; **Schiefflien Leprosy Research Sanatorium,** Karigiri, N. Arcot; **St. Joseph's Leprosy Home,** Tuticorin.

UTTAR PRADESH

Almora Leprosy Home and Hospital, Chandag Heights, Pithoragarh; **Leprosy Hospital,** Faizabad, Motinagar; **Leprosy Hospital,** Naini, Allahabad Dist.; **Leprosy Hospital and Home,** Almora, Almora Dist.; **Raphael Ryder Cheshire Foundation,** 16, Pritam Road, Dehra Dun; **State Leprosy Office,** Lucknow.

WEST BENGAL

Gandhi Memorial Leprosy Foundation, Sriniketan, Bolpur; **Leprologist,** 32/1, Radhakanta Jew Street, Shyambazar, Calcutta 700004; **Leprosy Control Work,** 5, Kyd. St., Calcutta 700016; **Leprosy Home,** Purulia; **Leprosy Home and Hospital,** Bankura, Bankura Dist.; **Leprosy Hospital,** Kalimpong, Darjeeling; **Leprosy Office,** Health Staff Quarters, Asansol Mines Board, Asansol, Burdwan; **Premanand Leprosy Dispensary,** Calcutta; **S. E. T. Units,** -Sriniketan, Bolpur (Clinics under the unit are at (*a*) Srin ketan, (*b*) Bandhalodanga and (*c*) Sarbawandpur).

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* In Kerala State 140 Survey Eradication Treatment Centres are functioning under Leprosy Control Units. † There exist Survey Education and Treatment (SE. T) Units at Sevagram, Wardha Dist.; Jamner, Jalgaon Dist. and three clinics each to the above units.

‡ There is a Leprosy Control Unit at J'Narsipur and the Unit controls three clinics at (*a*) Algud, (*b*) Kottigal and (*c*) Madapur.

§ This Unit carries educational work on leprosy at Srirangam, Lalgudi, Kulithalai, Pudukottai and Ariyabur.

SPACE RESEARCH

THE Government of India has set up a Space Commission and a Department of Space in June, 1972, with full executive and financial powers modelled on the lines of the Atomic Energy Commission and the Department of Atomic Energy in order to promote rapid development of activities connected with the Space Science, Space Technology, and Space Applications. The **Space Commission** and the **Department of Space** have their headquarters in Bangalore. Prof. S. Dhawan is **Chairman** of the Space Commission.

A complex of establishments of the **Indian Space Research Organisation** (ISRO) of the Department of Space has grown near Trivandrum, almost at the southern tip of the Indian peninsula. Named after late Dr. Vikram Sarabhai, the **Vikram Sarabhai Space Centre** (VSSC) includes the **Space Science and Technology Centre** (SSTC), propellant manufacturing and rocket fabrication facilities, and the **Thumba Equatorial Rocket Launching Station** — a United Nations sponsored sounding rocket range. The Space Science and Technology Centre has developed a number of sounding rockets. The Centaure two-stage rocket reaching 150 km. is produced under licence from France. More advanced rockets are under development. These are not only for developing capability to study the region above 150 km. but also to lead the country to a capability for operating satellites for diverse national needs.

The satellite launching station is being built up at the Sriharikota Island in Nellore District of Andhra Pradesh. In the Sriharikota Island in addition to a launch complex all supporting establishments for a satellite launching station are being set up. These are test and evaluation facilities, and a plant for the production of Solid propellants.

The Space Applications Centre, Ahmedabad is engaged in various areas of work in Space Applications. The Centre has undertaken work on such areas as Satellite Communications, Remote Sensing, Meteorological applications and development of software for television programmes. The Centre will also be responsible for the **Satellite Instructional Television Experiment** to be undertaken in 1975

Work on the building of an Indian Scientific Satellite has commenced at Bangalore.

FAMILY PLANNING IN INDIA

INDIA was the first country to adopt an official policy favouring family planning in 1951. During the period of the first two Plans (1951-61), the emphasis in India was mainly on research in the field of motivation, communication, demography, physiology of reproduction, and on the extension of Central and State organisations for providing clinic services. There was, therefore, very little progress in the adoption of family planning. In 1962-63 the programme was reorganised and a new approach called the "Extension Approach" was adopted. The programme is, at present, treated as a vital part of overall socio-economic development and welfare activity and not merely as an isolated birth control scheme.

Administration : Since 1965, the Indian family planning programme has moved into a stronger level of effort, with greater financing, improved administration and an intensified campaign to reach various sections of the people. A full-fledged Department of Family Planning was treated in April, 1966, in the Minister of Health, Family Planning and Urban Development. The department is headed by the Secretary of the Ministry and has administrative and technical wings headed by a Joint Secretary and a Commissioner respectively. There is a Family Planning Cabinet Committee presided over by the Prime Minister and the State Family Planning Cabinet Committees headed by the Chief Ministers to ensure expeditious policy clearance and better coordination among different administrative wings. The Central Family Planning Council is the supreme policy-making body. The Union Minister of Health presides over the Council, while all State Health Ministers and Secretaries are members. Family Planning Councils also function at the State level.

Allocation of Funds and Actual Expenditure During the Plan Periods

Period		Allocation of funds (in million Rs.)	Actual Expenditure (in million Rs.)
First Plan (1951–56)	..	6·5	1·45
Second Plan (1956–61)	..	49·7	21·56
Third Plan (1961–66)	..	270·0	248·60
1966–67	..	150·0	133·80
1967–68	..	310·0	255·35
1968–69	..	370·0	305·15
Fourth Plan (1969–74)	..	3,150·0	—
1969–70	..	420·0	371·8
1970–71	..	520·0	472·3
1971–72	..	606·0	592·4
1972–73	..	116·49	24·33

Services and Supplies : The programme is centrally sponsored and assisted to the extent of 96 to 97 per cent, while the States are responsible for its implementation. Family planning facilities and staff have considerably increased in recent years, and the family planning services have been integrated with maternal and child health services.

IUCD and sterilisation services are offered both through mobile and static units as well as through camps. The written consent of the husband before providing tubectomy services is not insisted upon. Just as in the case of vasectomy, the statement of the person undergoing the operation that the consent of the spouse has been obtained is taken as being sufficient. The number of beds specially established for female sterilisation is 3,457. At least 30 tubectomies are expected to be performed per bed per year. Facilities for recanalisation operation after vasectomy are available in 107 hospitals and institutions all over the country. The factory at Kanpur for producing IUCD has a daily production capacity of 30,550 loops.

Any woman accepting the IUCD is given a compensation of Rs. 15. The compensation for vasectomy and tubectomy is Rs. 35 and Rs. 45 respectively, since July 1972.

Camps : Mass vasectomy camps with a higher level of expenditure per case are a regular feature of the family planning programme and will continue to be so far some years. The choice of the model of the camp, whether a welfare package model like the Thanjavur camp or a massive organisation-cum-high incentive model like camps organised in Andhra Pradesh, Kerala, Gujarat etc., is left to the discretion of the State Government concerned. The acceptors are now required to be kept in the camp for a period of 48 hours after vasectomy, after which time, the compensation money is paid to them. The amount paid to the acceptor both in cash and/or kind does not exceed Rs. 60 according to the new pattern. Attempts are made to carry out immunisation of th children of the persons vasectomised at such camps. The total number of sterilisations performed in the mass camps during 1971-72 was about 8 lakhs.

Condom Distribution : Nirodh (condom) distribution is organised through three channels. Free distribution is made through all the family planning centres and subcentres. Under the second scheme called the 'Depot Holders Scheme' a nominal price of 5 paise for three pieces is charged and the proceeds are retained by the depot holders, who are honorary workers. Through the Depot Holder Scheme, 'Nirodhs' are also sold at selected post offices in the rural areas. The third scheme is for the distribution of 'Nirodh' through commercial channels which was launched in October 1968. Under the scheme, six of India's largest and most experienced private consumer goods marketing organisations are involved in marketing 'Nirodh' through their regular networks of salesmen, wholesalers, and retailers. The condoms are sold at a subsidised retail price of 15 paise for three pieces. It is estimated that there are at present over 200,000 retail outlets selling 'Nirodh' in the country. Hindustan Latex Ltd., a corporation in the public sector, has been set up at Trivandrum to produce condoms for both the commercial and the free distribution schemes. The production in 1969-70 and 1970-71 was 42·75 million pieces and 77·42 million pieces respectively. The estimated production in 1971-72 is 110 million pieces.

Infrastructure of the Family Planning Programme
(March 1972)

Facilities	Requirement	In Position (March 1972)
Family Planning Centres		
(*a*) Urban Family Centres	1,856	1,906
(*b*) Rural Primary Family Planning Centres	5,427	5,204
(*c*) Rural Subcentres	42,142	32,157
(*d*) Other Institutions providing planning services		
(*i*) Urban	—	2,333
(*ii*) Rural	—	5,780

Education and Motivation : The family planning symbol adopted by India is the inverted equilateral red triangle and it is widely displayed in the urban as well as in the rural areas.

Use of mass media is being made for disseminating knowledge about family planning and for creating awareness among the masses. Family planning cells have been created at 36 stations of All India Radio. Whereas in 1968-69, a total of 11,340 family planning items were broadcast, the corresponding figures for 1969-70 and 1970-71 were 15,377 and 18,107 respectively. Besides, billboards, hoardings, wall posters and paintings, matchbox covers, stamps, records, films, dramas, puppet shows, comic books, newspaper advertisements, and television, wherever available, are the other mass media utilised for family planning publicity. The person-to-person approach is also utilised with emphasis on group meetings. The involvement of the community is sought through the participation of local leaders and voluntary workers. Of the 192 mobile publicity units of the Directorate of Field Publicity, 30 are devoted exclusively to family planning work and for the remaining 162, family planning publicity is a major activity.

A working group has recently been formed under the chairmanship of the Director, Directorate of Field Publicity, Ministry of Information and Broadcasting, to improve the efforts made by the extension workers.

Another working group has been set up to review the requirements of the extension workers regarding educational aids. More effective utilisation of films and television and the introduction of super 8 mm. film projectors is proposed.

Some Associations : Voluntary organisations have been recognised to be important in the field of family planning. Some of these are: the Family Planning Association of India, Indian Medical Association of India, Central Bharat Sevak Samaj, Indian Red Cross Society, Trained Nurses Association of India, Bharatiya Gramin Mahila Sangh, Indian Council of Social Welfare, the Christian Medical Association, the Rotary Clubs, the Lions Clubs, and the Junior Chambers of Commerce etc. Many of these voluntary organisations are represented on the Central as well as on the State family planning councils.

In December 1969, the Indian Population Council was set up. As a non-governmental co-ordinating institution, the Council expects to develop service projects in areas not fully covered by Government programmes, take up the family planning training of welfare workers, and to support financing of buildings for voluntary agencies and for pre- and post-partum medical care.

The private industrial sector and the organised public sector have also been active in the field of motivation-education as well as the provision of services. The Government encourages such participation in the family planning programme not only by providing grants-in-aid, but also by allowing deduction of expenditures incurred by business houses on family planning work for their employees from computation of taxable income for income-tax purposes. The family planning programme of the organised public sector covers employees of the railways, the defence forces, mines, tea plantations, post and telegraphs and of other industrial establishments.

Population Education : A Population Education Cell was established in the Department of Social Sciences and Humanities of the National Council of Educational Research and Training in May 1970. It has initiated a programme of developing a curriculum for the entire school stage, both for the students and the teachers. The Central Health Education Bureau, New Delhi, has also undertaken the preparation of model lessons and guidelines for secondary school teachers. The Family Planning Department in collaboration with the University Grants Commission organises essay competitions and debates for the university students.

In addition to programmes for the student youth, population education programmes are also being planned for the Non-student Youth and proposals are being examined by the National Youth Advisory Board.

For the adult population, population education will be provided through Adult Literacy Classes, by integrating population education with functional literacy programmes. Educational material is being prepared for illiterates and neo-literates.

Research : Research in demography, bio-medicine and communication is supported by the Government through suitable grants.

The International Institute for Population Studies, Bombay : (till recently known as Demographic Training and Research Centre) is a regional centre for the training of demographers and population experts from India and from the countries of the ECAFE region. It is supported by the United Nations, and the Government of India. Apart from teaching responsibilities, the Institute has undertaken meaningful researches having a direct bearing on family planning policies.

Demographic Centres : The National Institute of Family Planning, New Delhi, is responsible for undertaking family planning researches. In addition, there are at present eight demographic research centres located at : Institute of Economic Research, Dharwar ; Department of Economics, Lucknow University, Lucknow ; Department of Statistics, Government of Kerala, Trivandrum ; Gokhale Institute of Politics and Economics, Poona ; Department of Statistics, M. S. University, Vadodara ; Indian Statistical Institute, Calcutta ; Institute of Economic Growth, Delhi ; and Department of Statistics, University of Patna, Patna. Recently, a centre has started functioning at the Institute of Social and Economic Change, Bangalore.

Family Planning Communication Action Research is undertaken at the International Institute for Population Studies, Bombay ; the Institute of Rural Health and Family Planning, Gandhigram ; Planning Research and Action Institute, Lucknow ; the Department of Statistics, Kerala University, Trivandrum ; and the Indian Statistical Institute, Calcutta.

All these centres have been regularly receiving grants-in-aid from the Department of Family Planning on the recommendations of the erstwhile Demographic and Communication Action Research Committee, set up by the Government of India. Recently, a new Committee on Socio-Economic Aspects of Family Planning has been constituted by the Government of India to advise on research and allied matters concerning population and family planning.

Recently, Demographic and Evaluation Cells have been created in all the States. In addition to the processing of statistical programme data, these cells are also responsible for carrying out field studies in their States.

Research in Reproductive Biology and Fertility Control is carried out at the Central Drug Research Institute, Lucknow ; All India Institue of Medical Sciences, New Delhi ; Delhi University ; Rajasthan University ; National Institute of Family Planning, New Delhi ; the Indian Institute of Sciences, Bangalore ; Institute for Research in Reproduction, Bombay. The Indian Council of Medical Research provides technical advice and co-ordination of the work in the field of medical and bio-medical research.

Training : Training is considered an important aspect of the programme. The training of family planning instructors and key staff is undertaken by five training institutes, the National Institute of Family Planning, New Delhi ; the Institute of Rural Health and Family Planning, Gandhigram ; the All India Institute of Hygiene and Public Health, Calcutta ; the Family Planning Training and Research Centre, Bombay ; and the Central Health Education Bureau, New Delhi. Forty-six Regional Family Planning Training Centres at the State level have been sanctioned, out of which 44 are functioning at present. Each State has a Central Family Planning Field Unit which undertakes *ad hoc* training programmes. The National Institute of Health Administration and Education, New Delhi, conducts periodic staff courses for the orientation of administrators holding key posts. In order to overcome the acute shortage of Auxiliary Nurse Midwives in some States, the Family Planning Department has made provision to open 25 new schools in 1970-71, ten in Bihar, ten in Uttar Pradesh and five in Orissa. Except for the schools in Uttar Pradesh all the schools have been opened. Provision has also been made to open ten more schools in Uttar Pradesh and nine in Bihar in 1972-73 with UNICEF assistance.

The Indian Medical Council has prepared the medical curriculum for the integration of family planning in the professional preparation of doctors. Additional staff and teaching equipment has been sanctioned for medical colleges for strengthening the teaching of family planning to medical students.

Special Schemes:

Intensive Districts Scheme: Seventeen districts have been selected for this scheme under which additional inputs are provided in terms of staff, mobile service units, vehicles, primary health centres, urban family welfare centres, buildings and audio-visual equipment. These districts are as follows : Guntur, Andhra Pradesh ; Kamrup, Assam ; Darbhanga and Muzaffarpur, Bihar ; Mehsana, Gujarat ; Hissar, Haryana ; Ernakulam, Kerala ; Raipur, Madhya Pradesh ; Poona, Maharashtra ; Dharwar, Mysore ; Cuttack, Orissa ; Julundar, Punjab ; Udaipur, Rajasthan ; Coimbatore, Tamil Nadu ; Kanpur and Gorakhpur, Uttar Pradesh ; and Murshidabad, West Bengal.

Selected Area Scheme : For the implementation of this scheme, the Varanasi Division of Uttar Pradesh has been selected. This division consists of the districts of Balia, Ghazipur, Jaunpur, Mirzapur and Varanasi. Additional inputs are provided in terms of staff, buildings and commodities.

With these additional inputs these districts under the Intensive Districts Scheme and the Selected Area Scheme are expected to achieve 150 per cent performance as compared to the targets in the non-intensive districts. The main problem in implementing these schemes is the appointment of technical staff. So far in none of the districts covered by these schemes the entire technical staff is in position.

Post-partum Programme : In order to maximise the extent of effective contraception among those who take advantage of large hospitals and institutions, educational and contraceptive services are provided under this scheme to obstetrical and abortion cases. Non-puerperal women and their husbands who request contraceptive services as an indirect result of this programme are also provided with the required supplies and services. At present this scheme covers 122 institutions in 16 States and 5 Union Territories. Normally, the criterion for the selection of a hospital for this programme is that a minimum of 3,000 confinements and abortions must be performed annually. Considering the success of the programme it has now been decided to extend this programme to all the districts and other hospitals providing maternity services for better coverage of the rural areas.

Maternal and Child Health Programme : An outlay of Rs. 26,500,000 has been provided in the Fourth Five Year Plan for the following four schemes under the M.C.H. programme : (1) immunisation of infants and pre-school age children against diphtheria, pertussis and tetanus ; (2) immunisation of expectant mothers against tetanus ; (3) immunisation against nutritional anaemia for mothers and children ; and (4) prophylaxis against blindness in children caused by vitamin A deficiency. The UNICEF has been giving assistance to pediatric units in District Hospitals in the form of supplies, equipment and vehicles. The UNICEF have also agreed to supply hospital and clinical equipments to urban institutions like Maternity Homes, M.C.H. Centres, and Family Welfare Planning Centres which give both MCH and family planning services.

Oral Contraceptives : The Technical Committee on Family Planning recommended in June 1971, that oral contraceptives may be tried both in urban and rural areas under some restricted conditions as an adjunct to the IUCD programme. Out of the 456 projects approved so far, 317 have been commissioned. Nine preparations for use as oral contraceptive pills have been approved by the Indian Council of Medical Research. The details of the offtake of oral contraceptives are as follows :

Year	Number of cycles
1967–68..	30,000
1968–69..	47,531
1969–70..	151,736
1970–71..	228,509
1971–72.. .. .. (upto 31st July 1971) ..	74,350

Targets : In 1965, the Indian family planning programme was made time-bound and target oriented. The objective of the programme is to reduce the birth rate from 41 per 1,000 to 25 per 1,000 by 1980–81. The more immediate goal is to reduce the birth rate to 32 per 1,000 population by 1973–74. Targets in terms of the number of sterilisations, IUCD insertions and users of conventional contraceptives have been worked out. The targets since 1966–67 are as follows :

Targets for Sterilisation, IUCD and Conventionals

Period	Sterilisation		IUCD		Conventionals (users)	
	Per 1,000	In million	Per 1,000	In million	Per 1,000	In million
1966–67	2·5	1·23	3·0	1·5	Urban 8 Rural 4	0·8 1·6 } 2·4
1967–68	4·0	2·1	8·0	4·1	2·0	1·0
1968–69	6·0	3·16	4·0	2·1	6·0	3·16
1969–70	4·5	2·43	1·5	0·81	6·0	3·24
1970–71	5·0	2·77	1·8	1·00	9·2	5·09
1971–72	3·80	2·08	1·52	0·83	7·0	3·83
1972–73	10·0	5·70	1·68	0·95	7·54	4·26

Progress : Upto the end of September 1972, 4·5 million IUCDs were inserted, and 11·5 million sterilisations were performed. The rate of IUCD insertions per 1,000 population was 7·9 and that of sterilization was 20. Over 9 million condoms are at present being distributed every month through the commercial and free distribution channels. It has been estimated that about 13·14 million couples are currently being protected as a result of the family planning programme and that 13 per cent of the couples, with the wife in the reproductive age group, have been thus protected. Corresponding percentages for sterilizations, IUCD and conventional contraceptives are 9·4, 1·5 and 2·1 respectively.

The impact of the family planning programme on the birth rate has been to reduce it from 41·7 in 1961 to 37·1 in 1971–72. This reduction has been estimated on the basis of the calculation of the number of births averted by the family planning performance. The birth rate thus estimated compares very well with the estimate of the birth rate of 37 per thousand population in 1970 from the Sample Registration Scheme of the Registrar General of India.

District-wise Performance : A district-wise study of family planning performance in India for the period 1967-70 undertaken at International Institute for Population Studies, Bombay indicated that though the progress of family planning had not been uniform in all the stages and though some States like Punjab, Haryana, Maharashtra, Kerala, Tamil Nadu and Orissa had done better than the other States, all the districts in the better performing States had not done well, nor had all the districts in poor performing States done poorly. The thirteen districts which exceeded the sterilisation target were East Godavari, Guntur, Krishna, West Godavari, Srikakulam and Vishakhapatnam in Andhra Pradesh ; Vadodara and Surat in Gujarat ; Barwani, Bastar, Khandwa, Rajgarh and Sarguja in Madhya Pradesh ; Greater Bombay, Thana, Poona, Sholapur, Sangli, Aurangabad, Parbhani, Bhir, Osmanabad, Akola, Amravati, Nagpur, Bhandara, Chanda, Nasik, Dhulia and Jalgaon in Maharashtra ; Chitradurga in Mysore ; Koraput in Orissa ; Nilgiris and Kanyakumari in Tamil Nadu ; and Nadia, Birbhum and Purulia in West Bangal. The eight districts which exceeded the IUCD target were Ferozepur, Gurdaspur, Patiala and Kapurthala in Punjab ; Rohtak, Mohindergarh and Ambala in Haryana ; and Simla in Himachal Pradesh. Thirty-seven districts were found to have done badly both in sterilisation and IUCD and had not been able to achieve even 25 per cent of either target. Fifteen of these districts were from Uttar Pradesh, 9 from Rajasthan, 6 from Bihar, 3 from Jammu & Kashmir, and 2 each from Himachal Pradesh and Madhya Pradesh.

Religion and Family Planning : The religion-wise distribution of sterilisation and IUCD insertions based on a 10 per cent sample of studies conducted during July 1967 — June 1968 indicates that the proportion of Muslim acceptors of sterilization and IUCD are more or less the same as the proportion of Muslims in the general population. The details are as follows :

Religion	All India Sterilized persons	IUCD acceptors	Distribution in 1971 census
Hindu ..	87·0	84·6	82·7
Muslims ..	8·6	7·4	11·2
Christians ..	0·7	2·1	2·6
Sikhs	1·0	2·7	1·9
Others	2·7	3·2	1·6
Total	100·0	100·0	100·0
Number of cases	37,553	18,904	(N. A.)

Urban-Rural Acceptance : Following are the details of the acceptance of different methods of family planning in urban and rural areas for the period 1966-1970 :

Year	No. of sterilisations	Percentage of rural to total	No. of IUCD insertions	Percentage of rural to total
1966–67	887,368	57·7	909,726	59·6
1967–68	1,839,811	61·7	668,979	58·9
1968–69	1,664,817	64·2	478,731	59·8
1969–70	1,422,118	55·9	458,726	58·4
1970–71@	1,319,580	57·0	471,030	40·0

@ Provisional figures.

Evaluation : In 1965, a team of experts from the United Nations reviewed the Indian family planning programme at the request of the Government. The second team of United Nations experts visited the country in 1969 to make an evaluation of the Indian family planning programme within the context of the Third Five Year Plan and subsequent Plans, with a view to make recommendations. In 1968, an evaluation of the family planning programme was carried out by the Planning and Evaluation Organisation of the Planning Commission. At the national level, periodic review of the performance is made by the office of the Director of Planning on the basis of routine statistics received from the States. At the State level, the Demographic and Evaluation Cell is responsible for evaluation activities.

FAMILY PLANNING PROGRAMME IN INDIA 1968-72: PERFORMANCE AND PROPORTION OF TARGETS REACHED FOR STERILISATION AND IUCD IN THE STATES AND UNION TERRITORIES

	1968–69			
	Sterilization	Percentage of target reached	IUCD	Percentage of target reached
Andhra Pradesh	205,071	81·8	17,459	10·5
Assam	14,731	16·5	21,791	36·7
Bihar	92,564	27·8	25,041	11·3
Gujarat	100,559	66·1	12,422	12·3
Haryana	19,347	33·7	29,464	77·0
Jammu & Kashmir	11,841	49·9	7,552	47·7
Kerala	73,840	60·3	36,062	44·1
Madhya Pradesh	135,110	57·6	35,927	23·0
Maharashtra	273,034	94·9	11,105	5·8
Mysore	92,256	54·6	19,717	17·5
Orissa	70,839	56·8	35,800	54·9
Punjab	38,676	45·9	36,248	64·6
Rajasthan	37,830	25·2	21,060	21·0
Tamil Nadu	113,534	49·2	25,358	16·5
Uttar Pradesh	155,883	23·7	90,792	25·9
West Bengal	172,202	66·9	21,684	12·6
Nagaland	35	1·4	35	2·1
A. & N. Islands	158	30·4	98	28·3
Chandigarh	501	55·3	817	135·3
D. & N. Haveli	17	4·1	2	·7
Delhi	8,865	38·1	6,704	43·2
Goa, Daman & Diu	1,518	37·4	1,065	39·4
Himachal Pradesh	7,936	38·2	7,704	55·6
L. M. & A. Islands	29	18·0	5	4·6
Manipur	124	1·9	1,562	37·4
Arunachal Pradesh	1	0·1	107	6·9
Pondicherry	2,463	94·9	3,213	185·7
Tripura	4,528	52·6	584	10·2
Central Govt. Insts.	31,262	—	9,295	—
All India	1,664,817	52·6	478,731	22·7

FAMILY PLANNING PROGRAMME IN INDIA 1968-72: PERFORMANCE AND PROPORTION OF TARGETS REACHED FOR STERILISATION AND IUCD IN THE STATES AND UNION TERRITORIES—(*Contd.*)

	1969–70				1970–71			
	Sterilisation	Percentage of target reached	IUCD	Percentage of target reached	Sterilisation	Percentage of target reached	IUCD	Percentage of target reached
Andhra Pradesh	206,558	86·9	9,189	21·6	219,859	73·6	9,375	15·4
Assam	17,176	56·1	9,162	29·9	16,892	44·0	6,151	16·9
Bihar	66,955	39·3	35,619	57·0	72,748	34·1	40,829	48·3
Gujarat	94,308	64·6	10,648	50·9	94,537	58·7	9,490	33·5
Haryana	18,555	58·7	27,175	91·8	21,707	62·2	23,470	69·9
Jammu & Kashmir	7,415	38·6	4,379	54·7	10,867	51·3	8,438	77·4
Kerala	59,508	50·7	37,252	81·0	68,017	52·6	30,584	46·3
Madhya Pradesh	123,027	56·9	41,087	73·4	88,975	37·3	40,629	54·9
Maharashtra	228,000	79·9	8,500	21·6	248,170	80·6	9,501	20·9
Mysore	48,749	33·1	13,039	37·7	46,748	28·8	9,968	23·3
Orissa	102,278	96·1	37,342	76·4	97,120	82·6	58,404	87·4
Punjab	41,085	67·6	29,987	74·0	31,114	46·4	26,891	60·0
Rajasthan	43,530	52·8	22,430	58·0	30,297	29·3	17,311	36·4
Tamil Nadu	108,697	60·5	39,543	67·6	70,501	35·6	50,893	65·7
Uttar Pradesh	77,945	29·1	81,033	53·3	77,490	24·5	96,281	52·6
West Bengal	80,173	32·5	9,148	17·3	71,403	26·2	9,109	15·3
Nagaland	—	—	—	—	—	—	—	—
A. & N. Islands	135	67·5	60	30·0	99	49·5	62	31·0
Chandigarh	438	73·0	526	65·8	341	42·6	396	44·0
D. & N. Haveli	109	109·0	1	1·0	67	67·0	4	4·0
Delhi	8,226	59·2	7,275	59·1	7,759	49·1	8,460	56·0
Goa, Daman & Diu	1,334	55·6	421	23·4	1,879	67·1	257	11·7
Himachal Pradesh	5,412	46·3	3,681	35·7	4,442	33·4	1,449	11·5
L. M. & A. Islands	32	32·0	3	3·0	14	14·0	—	—
Manipur	558	186·0	1,158	44·5	468	156·0	1,103	34·5
Arunachal Pradesh	21	21·0	55	27·5	36	36·0	38	19·0
Pondicherry	2,766	102·4	2,283	163·1	2,518	83·9	3,100	182·4
Tripura	3,979	60·3	329	32·9	3,067	40·9	142	11·8
Central Govt. Insts.	25,837	55·4	8,008	42·8	21,508	—	6,486	—
All India	1,372,816	56·5	439,333	54·2	1,308,643	47·10	468,821	45·8

FAMILY PLANNING PROGRAMME IN INDIA 1969-72: PERFORMANCE AND PROPORTION OF TARGETS REACHED FOR STERILIZATION AND IUCD IN THE STATES AND UNION TERRITORIES

	1971–72			
	Sterilization	Percentage of target reached	IUCD	Percentage of target reached
Andhra Pradesh	265,812	102·2	18,508	166·5
Assam	37,793	120·7	7,126	71·8
Bihar	127,006	77·5	43,563	39·2
Gujarat	294,675	200·1	8,888	58·7
Haryana	46,394	173·6	23,237	63·8
Jammu & Kashmir	5,941	51·5	5,477	76·0
Kerala	150,504	170·9	18,795	37·6
Madhya Pradesh	93,610	54·2	46,006	109·8
Maharashtra	385,467	121·1	7,270	14·1
Mysore	56,717	79·8	11,767	38·9
Orissa	84,046	60·3	50,680	68·9
Punjab	39,900	72·1	45,171	93·3
Rajasthan	33,702	42·6	16,687	53·3
Tamil Nadu	245,908	141·4	37,377	61·6
Uttar Pradesh	153,132	99·1	92,979	46·2
West Bengal	70,389	65·8	8,246	88·6
Nagaland	—	—	—	—
Meghalaya	502	23·9	475	72·1
A. & N. Islands	112	51·9	76	55·9
Chandigarh	627	105·2	546	132·2
D. & N. Haveli	84	50·9	1	1·0
Delhi	10,273	63·1	6,644	59·1
Goa, Daman & Diu	1,878	74·6	312	32·2
Himachal Pradesh	5,597	62·2	3,794	112·5
L. M. & A. Islands	17	60·7	4	10·3
Manipur	386	41·1	1,458	89·1
Arunachal Pradesh	33	40·7	40	7·1
Pondicherry	1,879	58·2	1,343	36·4
Tripura	1,975	34·8	73	—
Central Govt. Insts.	23,813	—	6,425	—
All India	2,138,172	102·9	462,968	55·7

PUBLIC HEALTH

(For the addresses of the Research Institutes mentioned in this chapter please refer to 'Research')

HEALTH programmes are primarily the responsibility of the State Governments. The Centre is, however, directly responsible even for the State subjects in the Union Territories. Certain schemes for improving the standard of health of the nation under the Five Year Plans have also been sponsored by the Union Government.

The outlays on Public Health and Medical Programmes proposed for the Fourth Plan and the expenditure during the Third Plan, 1966-69, 1969-70 and 1970-71 are indicated below :

Outlay on Public Health and Medical Programme

(Rs. Million)

Period	Central	Centrally sponsored	States	Union Territories	Total
Third Plan	148·3	54·6	1,932·4	123·3	2,258·6
1966-69 (anticipated)	167·6	111·4	1,052·4	69·7	1,401·1
Fourth Plan (Proposed)	535·0	1,765·0	1,882·1	192·9	4,375·0
1969-70	63·5	227·5	246·5	24·0	561·5
1970-71	74·0	253·8	271·4	34·8	634·0

The distribution of the Fourth Plan outlays and outlays during 1969-70 and 1970-71 for purely health programmes under broad heads is given below :

(Rs. Million)

Programme	Fourth Plan Outlay	Outlay 1969-70	Anticipated expenditure 1960-70	Outlay 1970-71
Medical Education and Research	852·9	115·0	125·3	146·5
Training Programme	129·3	15·4	11·0	216·0
Control of Communicable Diseases	1,270·1	202·7	194·5	1·5
Primary Health Centres	764·9	81·9	67·6	73·0
I.S.M. (Indigenous System of Medicine)	158·3	17·0	18·7	25·0
Other Programmes	281·0	35·7	35·5	47·0
Total ..	4,350·3	561·5	545·7	634·0

Over the years, there has been a steady improvement in the general health of the Indian population. This improvement is reflected in such measures as expectation of life at birth and death rates.

Expectation of Life at Birth and Death Rates

Year		Expectation of Life at Birth		Death Rate per 1,000 population
		Males	Females	
1941-50	..	32·5 years	31·7 years	27·4
1951-60	..	41·9 years	40·6 years	22·8
1961-65	..	45·7 years	44·3 years	19·2
1966-70	..	48·2 years	46·8 years	17·0
1971-75	..	50·7 years	49·3 years	15·0

Sources : (*i*) The figures for 1941-50 and 1951-60 are based on Census estimates.
(*ii*) The figures for 1961-65, 1966-70 and 1971-75 are estimates based on the revised projections made by the Expert Committee appointed by the Government of India.

The Central Health Service covers all medical and public health posts under the Central Government and the Union Territories other than those under the Ministries of Railways and Defence, and is governed by the Central Health Service Rules, 1963 (as amended by the Central Health Service (Amendment) Rules, 1966). This service came into being with effect from January 1, 1965.

Cancer : About 425,000 people die every year from cancer in India. There are 50 general hospitals in the country where facilities for cancer treatment are available in the form of surgery, radium etc. The State-wise break-up is : Andhra Pradesh 2, Assam 4, Bihar 1, Delhi 2, Gujarat 3, Kerala 3, Maharashtra 3, Mysore 4, Orissa 2, Punjab (including Haryana) 5, Rajasthan 4, Tamil Nadu 8, Uttar Pradesh 4, and West Bengal 4.

Research is conducted at the Cancer Research Institute, Parel, Bombay ; the Cancer Institute, 110, Mount Road, Madras 600018 ; the Chittaranjan National Cancer Research Centre, Calcutta ; Radium Institute and Cancer Hospital, Hyderabad ; J. K. Institute of Radiology and Cancer Research, Kanpur ; International Cancer Centre, Neyoor (Tamil Nadu) and S. N. Medical College, Agra. Field research stations for clinical facilities have also been established at Chandernagore, Hooghly, West Bengal and Madras.

Cholera : Because of the continued incidence and epidemic outbursts of this disease, India has acquired the name of "the home of Cholera". The endemic areas are in the seven States of Andhra Pradesh, Bihar, Maharashtra, Mysore, Orissa, Tamil Nadu and West Bengal.

An outlay of Rs. 20 million has been allocated under the Fourth Plan. Priority is being given for provision of safe water supply and proper drainage under the National Water Supply and Sanitation Programme to the endemic areas. Preventive and surveillance measures are also being carried out.

Research studies on the various aspects of cholera are being carried out at the Cholera Research Centre, Calcutta in collaboration with the WHO ; the School of Tropical Medicine, Calcutta in collaboration with the Johns Hopkins University, U.S.A. ; the Central Drug Institute, Lucknow ; the Haffkine Institute, Bombay ; the Central Research Institute, Kasauli, Himachal Pradesh and at the National Institute of Communicable Diseases, Delhi.

Filaria : The National Filaria Control Programme has been in operation since 1955-56. A total provision of Rs. 48·8 million has been allocated in the Fourth Plan.

The programme consists of (*i*) anti-mosquito and anti-larval measures, (*ii*) establishment of filaria clinics for the detection and treatment of positive micro-filaria cases (*iii*) provision of underground drainage in hyper-endemic cities and towns and (*vi*) establishment of Bureaux of Filaria at State level for prevention of filarious conditions. But, the present activities of the programme are confined only to recurrent anti-larval measures with mosquito larvicidal oil, undertaken by the Filaria Control Units.

At present 85 Filaria Control Units are functioning in 15 States/Union Territories endemic for filariasis. These units are protecting a population of over 8 million. Besides these control units, specialised units—6 State headquarters bureaux and 4 Rural Research-cum-Training Centres—are also functioning in various States. By the end of 1971-72, 133 Filaria Control Units and 12 headquarters units will be operative protecting a population of approximately 13 million.

Besides the headquarters of the programme located at the National Institute of Communicable Diseases, Delhi, there are 3 branch organisations known as **Filariasis Training Centres** located each at Calicut (Kerala), Rajamundry (Andhra Pradesh) and Varanasi (Uttar Pradesh) which are responsible for the field evaluation of the programme, training of personnel and researches on various aspects of filariasis.

To review the progress of the National Filaria Control Programme an Assessment Committee under the auspicious of Indian Council of Medical Research, Delhi, was formed during 1971-72. The Committee submitted a report which is under consideration of the Government of India.

Goitre : Endemic goitre is a nutritional deficiency disease and is prevalent in the southern slopes of the Himalayas covering a distance of 2,414 kms. About 40 million people live on this goitre belt which consists of northern parts of Jammu and Kashmir, Punjab, Haryana, Himachal Pradesh, Bihar, West Bengal, Nagaland, Arunachal Pradesh and Manipur. The persons affected with goitre are estimated to be about 8 to 10 million.

The National Goitre Control Programme was initiated in the Second Plan and has been continued in the Third and Fourth Plans. Under the Plans, iodised salt is manufactured at three iodisation units—one each at Sambhar Lake, in Rajasthan ; Kharaghoda in Gujarat and Calcutta, and supplied to the public at the same rate at which ordinary salt is sold. Till the end of 1969, 198,889·3 tonnes of iodised salt had been distributed to the affected population leading to marked decline in the prevalence rates of goitre in different areas. A total provision of Rs. 550,000 has been proposed for 1970-71 as central assistance to the three Iodisation Plants, which were supplied free by the UNICEF.

Leprosy : It has been estimated that 300 million people in India are exposed to leprosy. Estimate of the actual cases of leprosy is about 2·5 million of which only 20 per cent cases are of the infectious type. Out of the 300 million people at risk, about 85 million have been covered and out of 2·5 million cases about 945,000 cases have been recorded and put on treatment.

Under the National Leprosy Control Programme 204 Leprosy Control Units and 1,307 Survey, Eradication and Treatment Centres have been established in the country for provision of medical facilities to leprosy patients on the domiciliary ambulatory method upto the end of 1970.

The Central Leprosy Teaching and Research Institute, Chingleput (Tamil Nadu) undertakes research in the various problems concerning leprosy and promotes field studies for the application of the results of the research to control the spread of leprosy. Five control centres are run by international organisations. Thirty-seven voluntary organisations receive grants-in-aid from the Government of India. It also functions as a centre for offering technical advice and guidance for the promotion of anti-leprosy work on sound lines. This Institute makes available its services for the investigation of special problems in all parts of the country. Training courses for medical officers, para-medical workers, physiotherapy technicians, laboratory technicians etc. are conducted in this Institute.

Assistance to the programme is received from the WHO and the UNICEF in the form of personnel, fellowships, transport, equipment, drugs, teaching aids and stipends for trainees.

Private organisations also take active part in controlling leprosy. These include the Leprosy Mission, Hind Kushta Nivaran Sangh (the Indian Leprosy Association), Gandhi Memorial Leprosy Foundation (for addresses refer to the chapter on 'Institutions for the Handicapped') and 3 R'Society C/o Tata Dept. of Plastic Surgery, Balaram Bldg., J. J. Group of Hospitals, Bombay 400008.

The Reconstructive Surgery Programme is receiving increasing attention of the Government of India and leprosy patients with deformities of hands, feet and face get facilities of corrective surgery now in about 30 hospitals in India.

Malaria : India with 1,091,561 malaria cases (1972) is the worst affected country according to World Health Organisation. The National Malaria Eradication Programme which was started in 1958-59 has entered the 14th year of its operation during 1971-72. There are at present 393·25 NMEP units functioning in the country covering a population of 535 million. The remaining 15 million population is residing in areas which were never malaria endemic.

At present 59 per cent of the areas of the country are in maintenance phase from where malaria has been eradicated, 17 per cent is in consolidation or advanced stage of eradication and only 24 per cent population of the country is in attack phase where spray is continuing.

The incidence of the disease which used to be 75 million cases per year in 1952 *i.e.*, 200,000 cases in a million population has been reduced to about 0·6 million cases in 1971 *i.e.*, about 1,300 cases in a million population. The malaria mortality which was estimated in 1952 to be 0·75 million deaths or 2,000 deaths in a million population has become an extreme rarity.

The programme is being implemented by the Union Government with the active participation of the State Governments as well as with the assistance of United States Agency for International Development and the World Health Organisation. The National Institute for Communicable Diseases is responsible for research and field investigations and for the training of unit medical officers and district health officers in methods of malaria eradication. Other categories of health personnel are trained by the regional co-ordinating organisations established at Bangalore, Vadodara, Bhubaneswar, Hyderabad, Lucknow and Shillong.

A total amount of Rs. 177·1 million for this programme is proposed in the Fourth Five Year Plan.

Mental Diseases : At present there are 41 mental hospitals with accommodation for about 25,000 patients. About 1 million Indians suffer from mental sickness (1971). The following is a list of mental hospitals in India :

Andhra Pradesh : Government Mental Hospital, Waltair ; Hospital for Mental Diseases, Hyderabad. **Assam :** Mental Hospital, Tezpur. **Bihar :** Hospital for Mental

Diseases, Ranchi; Ranchi Manasika Arogya Shala, Ranchi. **Delhi :** Mental Hospital, Delhi. **Goa :** Mental Hospital, Panaji, Goa. **Gujarat :** Mental Hospital, Ahmedabad; Mental Hospital, Vadodara; Mental Hospital, Bhavnagar; Mental Hospital, Bhuj; Mental Hospital, Jamnagar. **Jammu and Kashmir :** Mental Hospital, Srinagar. **Kerala :** Mental Hospital, Trivandrum; Mental Hospital, Trichur; Mental Hospital, Calicut. **Madhya Pradesh :** Mental Hospital, Indore; Mental Hospital, Gwalior. **Maharashtra :** Mental Hospital, Thana; Mental Hospital, Ratnagiri; Central Mental Hospital, Yeravada; Mental Hospital, Nagpur; Private Hospital, Miraj. **Mysore :** Government Mental Hospital, Bangalore; Government Mental Hospital, Dharwar. **Orissa :** Orissa Red Cross Mental Health Institute, Cuttack. **Punjab :** Mental Hospital, Amritsar. **Rajasthan :** Mental Hospital, Jaipur; Mental Hospital, Jodhpur. **Tamil Nadu :** Government Mental Hospital, Madras. **Uttar Pradesh :** Mental Hospital, Varanasi; Mental Hospital, Agra; Mental Hospital, Bareilly; Nur Manzil Psychiatric Centre, Lucknow. **West Bengal :** Mental Observation Ward, Calcutta; Lumbini Park Mental Hospital, 24-Parganas; Bangya Unmad Ashram, Calcutta; Mental Hospital, Calcutta; Bodhi Peet Mental Hospital, Calcutta; Mental Hospital, Mankundu, Hooghly.

There are at present 51 institutions (25 Government and 26 private) for the **Mentally retarded** and the **Mentally handicapped.** The major centres are in: Chandigarh (1), Uttar Pradesh (5), Mysore (2), Maharashtra (19) Tamil Nadu (1), Madhya Pradesh (1), Kerala (1), Gujarat (3), Delhi (7), Bihar (2) and Andhra Pradesh (2).

The All-India Institute of Mental Health, Bangalore was established in September, 1954, for imparting post-graduate training and research in mental health and other disciplines of neuro-sciences.

This is an autonomous organisation financed by the Government of India and conducts the following post-graduate courses: (*i*) M.D. degree in Psychological Medicine; (*ii*) M.Ch. degree in Neurosurgery; (*iii*) D.M. degree in Neurology; (*iv*) Diploma in Psychological Medicine (DPM); (*v*) Diploma in Medical and Social Psychology (DM & SP); (*vi*) Ph.D. in Clinical Psychology; and (*vii*) Diploma in Psychiatric Social Work (DPSW). The Institute is affiliated to the Bangalore University for post-graduate courses. Post-certificate course in Psychiatric Nursing (DPN) is also conducted at the Institute. This diploma is recognised by the Government of India and the Indian Nursing Council.

Smallpox : Under the National Smallpox Eradication Programme started in 1962, more than 167·30 million primary and 701·82 million revaccinations had been done upto the end of June, 1971.

As a result of the intense campaign, the number of smallpox cases and deaths have declined considerably over the years. But, for the past 12 months, the number of smallpox cases notified by India has consistently exceeded levels of the previous year. 27,309 cases have been recorded in 1972, an increase of 68 per cent over the total in 1971.

Year	Cases	Deaths
1967	83,943	26,225
1968	30,295	7,266
1969	19,139	4,156
1970	12,341	2,241
1971	16,166	1,738*
1972**	27,309	N.A.

Source : CBHI. * Upto mid-October 1971.
** WHO, Weekly epidemic Record No. 2, 1972, pp. 9-10.

For many States, the increase reflects more effective surveillance activities and the discovery of many cases which previously would not have been reported. In addition, since April the reporting system itself has been steadily improved. Smallpox is now principally confined to 66 of India's 358 districts. About 76 per cent cases have been reported from these districts which are located in five States. The principal foci are in north-central and north-east India in the States of West Bengal, Uttar Pradesh, Bihar and Madhya Pradesh. A separate focus is present in Jammu and Kashmir where major epidemics are now occurring following introduction of the disease in spring of 1972 from other parts of India. The maximum cases of smallpox have been registered in the months April and May followed by March, February, January and December. Minimum cases have been registered in the month of October followed by September, August, July and June.

Trachoma : Trachoma infection is highly endemic in the States of Punjab including Haryana (79·1 per cent), Rajasthan (74·3 per cent), Uttar Pradesh (68·1 per cent), and Gujarat (56·0 per cent). The States of Madhya Pradesh (41·3 per cent), Bihar (35·0 per cent), Assam (25·2 per cent) and Mysore (22·6 per cent) are considered to be moderately endemic areas where the prevalence is more than 20 per cent but less than 50 per cent. The low endemic areas where the prevalence is noted to be under 20 per cent are the States of Jammu and Kashmir (16·8 per cent), Maharashtra (11·3 per cent), Kerala (8·7 per cent), Andhra Pradesh (5·3 per cent), Tamil Nadu (4·6 per cent), Orissa (2·7 per cent) and West Bengal (0·5 per cent).

About 4·5 million persons are estimated to be blind in India in comparison to the total world estimate of about 15 million. Trachoma and associated infections constitute the most important cause of preventible blindness.

The National Trachoma Control Programme was undertaken in 1963. The programme is being implemented in Punjab, Haryana, Rajasthan, Uttar Pradesh and Gujarat and on a limited scale in Madhya Pradesh, Bihar, Mysore and Jammu & Kashmir.

As of March 1971, control activities were in operation in 448 Community Development Blocks/Primary Health Centres. This brings the total population under the Control Programme to 36 million out of 229·80 million at risk. During the Fourth Plan period, it is proposed to bring an additional population of about 105 million under the control operation. It is planned that during 1970-71, 90 more Community Development Blocks will come under the Programme.

Influenza : An Influenza Centre was opened in 1950 at the Pasteur Institute, Coonoor, Tamil Nadu, to undertake study of and research in problems relating to influenza. The centre co-operates with the World Influenza Centre, London and other influenza centres organized by the WHO in different parts of the world.

Diabetes : The urban population in the country is more prone to diabetes than its counterparts in rural areas. On a rough estimate at the end of 1972 about 5·5 million people were suffering from diabetes in India. Of them, urban area's share was 3·3 million.

Tuberculosis : There are at present 525 TB clinics in the country. Sixteen districts are, however, still without a single T.B. clinic. There are 15 TB Demonstration and Training Centres.

According to World Health Organisation about two million infectious cases of tuberculosis (1972) have been reported in India. About 3,000 towns and urban areas and 600,000 villages are affected by tuberculosis. The Government of India proposes to have one BCG team in every district before the end of the Fourth Plan. The 276 BCG teams currently functioning in various States and Union Territories have vaccinated some 155 million people upto the end of August 1972.

The National Tuberculosis Institute of India, established by the Government of India in 1959 is responsible for formulating and continuous evaluation of India's National Tuberculosis Programme. It carries out applied research in Tuberculosis Epidemiology, Bacteriology and BCG Vaccination, Sociological Studies as well as operation Research. This institute also arranges for the training of tuberculosis programme workers. There are two more research institutions at Madanapalle, Andhra Pradesh and Tamil Nadu. Training is also imparted at other institutions, such as Vallabhbhai Patel Chest Institute, Delhi.

Anti-TB drugs are being procured and supplied by the Government of India to voluntary organisations which operate TB clinics and supply such drugs free of charge to TB patients under their care.

Venereal Diseases : India has an estimated 20 million people suffering from V.D. ; which comes to nearly 20 per cent of the reproductive age group population. About 5 per cent of the total population suffers from syphilis and an equal percentage from gonorrhoea. Yaws is prevalent in a few districts of Andhra Pradesh, Orissa, Madhya Pradesh and Maharashtra.

V. D. control schemes are sponsored by the Union Government, which gives all the money needed to the States and Union Territories. In India, only about 300 clinics are there. Other than these clinics, few hospitals are having special wards for V. D. patients. A provision of Rs. 8·30 million has been made for the V. D. control programme in Fourth Plan.

Training facilities are available in the V. D. Training Centre, Safdarganj Hospital, New Delhi and the Institute of Venereology, Government General Hospital, Madras. Apart from these institutions, few colleges have a venereological department.

Air Pollution : The atmospheric pollution in cities like Delhi, Calcutta, Bombay and Kanpur has increased between 50 and 100 per cent since 1957. This affects the health condition of the people. The Central Public Health Engineering Research Institute, Nagpur is studying the effects of air pollution in Bombay. A national network of sampling for air quality has been set up in nine cities (*Viz.* Delhi, Calcutta, Madras, Kanpur, Bombay, Ahmedabad, Hyderabad, Jaipur and Nagpur).

The Union Government has set up an expert committee to study the general problem of air pollution in the country and to suggest ways and means including a draft legislation to control them. Government of India has decided to set up many stations to measure air pollution in all major cities. A beginning would be made with 10 of them being located in schools or colleges of Delhi with the help of teachers. Some other research institutions like International Institute for Population Studies, Bombay have taken up projects to study the quantum of air pollution in different big cities of India.

National Water Supply and Sanitation Programme: This programme was launched in 1954. During the three plan periods and three annual Plans, about 418,700 new wells were constructed and 304,000 new hand-operated tube wells were bored. In addition about 554,000 old wells were renovated.

The Fourth Plan outlay for the national water supply and sanitation programme is placed at Rs. 3,862·0 million for the States and Union Territories, who are to allocate the funds for the different schemes. The Plan envisages the following priorities for execution of water supply and sanitation programme ;

(*i*) Completion of schemes under execution ;
(*ii*) Schemes for controling water borne and filth borne diseases in endemic areas ;
(*iii*) Schemes in draught and scarcity areas and
(*iv*) Schemes to push up economic prosperity.

The programme also provides for the training of public health engineering personnels. The training programme is being implemented at the Victoria Jubilee Technical Institute, Matunga, Bombay 400019, the All India Institute of Hygiene and Public Health, Calcutta, the Engineering College, Guindy, Tamil Nadu and the Engineering College, Roorkee, Uttar Pradesh. The Central Public Health Engineering Organisation (C/o Min. of Health and Fly. Plng.) has been set up for helping State Governments in the preparation and execution of their schemes and for giving technical advice and guidance. Similar organisations have also been established in most of the States. A sum of Rs. 25 million has been provided in the Fourth Plan for these training programmes.

DRUGS CONTROL :

Under the Drugs and Cosmetics Act, the Central Drugs Standard Control Organisation is responsible for (*i*) controlling the quality of imported drugs moving in inter-State commerce ; (*ii*) co-ordinating the activities of the States ; (*iii*) laying regulatory measures and standards of drugs ; and (*iv*) granting approval to "new drugs" proposed to be imported or manufactured in the country. The State Drug Control Authorities, through an elaborate system of licensing of manufacturing and sales premises, exercise control over the quality of drugs manufactured, sold or distributed.

The prices of drugs are regulated under the provisions of the Drugs (Prices Control) Order of 1971, issued under the Essential Commodities Act of 1955 and is an amendment of the Drug Prices (Display and Control) Order of 1966. The order stipulates that the Union Government has powers to revise the price of any drug formulation unilaterally and that no drug manufacturer can increase the prices of drugs, once fixed, without the prior approval of the Government.

HEALTH EDUCATION

The Central Health Education Bureau at Temple Lane, Kotla Road, New Delhi 110001, established in November 1956, co-ordinates and promotes health education in the country through Health Education Bureau established in 15 States and 5 Union Territories.

The Bureau conducts one-year diploma course in Health Education under the auspices of the University of Delhi and conducts in-service training programmes for health and family planning education personnel. It conducts behavioural research on health aspects and develops health education curricula for different age-groups and teacher training. The Bureau organises exhibitions, maintains a film library and produces education and publicity materials for National Health Programmes.

Publications : The Central Health Education Bureau publishes monthly journals Swasth Hindi (English) and Arogya Sandesh (Hindi) for general readers and Director General of Health Services Chronicle for medical personnel. It also produces health education material — folders, pamphlets, posters, filmstrips, etc.

FOOD AND NUTRITION :

Several measures are being taken to meet the nutritional deficiency of certain vulnerable groups such as industrial workers, expectant and nursing mothers and school children. Skim milk powder supplied by the UNICEF and other organisations is distributed to children and expectant and nursing mothers. Mid-day meals are provided to about 13·1 million primary school children. Other schemes being implemented are protein supplement to the diet of the vulnerable groups, opening of canteens in industrial concerns and offices and manufacture and popularisation of cheap and nutritious food.

Following table shows the average per capita availability of food items in grams per day in relation to nutritional requirements of India for 1969 :

Item	Quantity	Requirement for nutritive diet	Availability as per cent of requirement
Cereals ..	395	370	107
Pulses	51	59	92
Sugar	46	40	115
Fats & Oils ..	10	38	27
Milk	108	180	61
Meat	3·6	35	34
Fish	7·1		
Eggs	1·3		
Starch roots ..	44	235*	38
Fruits & Vegetables ..	58	37†	

* All vegetables only. † Fruits only.

The programmes for 1970-71 include : (*i*) feasibility test of vitamins and minerals-fortification of staple food ; (*ii*) control of blindness among children caused by vitamin A deficiency ; (*iii*) prophylaxis against nutritional anaemia for mothers and children.

The Nutrition Advisory Committee of the Indian Council of Medical Research, appointed in June 1960, sponsors schemes for nutrition research, besides advising the Government of India on nutrition matters.

INDIGENOUS SYSTEMS OF MEDICINE

The Central Council for Research in Indian Medicine and Homoeopathy at E25, Defence Colony, New Delhi 110003, constituted in the year 1969-70 is responsible for initiating, guiding and co-ordinating scientific research in the different aspects, fundamental and applied, of Ayurveda, Sidha and Homoeopathy systems of Medicine and also for Yoga.

MEDICAL EDUCATION

At the commencement of the Fourth Plan there were 93 medical colleges in the country. During the Fourth Plan, ten new medical colleges will be opened. **The doctor : population ratio** has improved from 1 : 6,100 in 1961 to 1 : 4,730 in 1972 and is expected to improve to 1 : 4,300 by 1974.

(Refer to the Education chapter for a list of medical colleges.)

Training of Nurses : In the year 1960-61 there were about 27,000 trained nurses in the country. In 1970-71 this figure stood at about 77, 824. It is expected that by the end of the Fourth Plan there will be 88,000 nurses in the country.

The number of training institutions for nursing personnel and of students under training at the end of 1970-71 were as follows :

The figures within brackets indicate the number of students : Nurses 248 (19,815) ; Midwives 230 (5,159) ; Auxiliary Nurse-Midwives 312 (10,906) ; Health Visitors 17 (1,299).

Dental Education : There are now 15 Dental Institutions all affiliated to Universities, training students for the degree of Bachelor of Dental Surgery (B.D.S.), having facilities for about 600 admissions. (Refer to the chapter on Education for the list of dental institutions.)

Pharmacy : The Pharmacy Council of India, constituted under the Pharmacy Act of 1948 prescribes and regulates the minimum educational standards of studies in pharmacy. It has approved 281 institutions having a training capacity of 1,279 student pharmacists for practical training purposes.

There are also 47 institutions which offer pharmacy as a subject on their curricula, a list of which is given in the chapter on Education.

By the end of December 1971 there were 87,000 pharmacists registered in India.

Medical Research : (Refer to " Research " chapter.)

STATUTORY COUNCILS

Medical Council of India : Established under the Indian Medical Council Act of 1956, this Council is responsible for the maintenance of the Indian Medical Register, and uniform standards of medical education and for recognition of medical qualifications in the country. The **total number of doctors** on the Medical Register upto 31st December 1971 is 142,907.

Dental Council of India : This council was established under the Dentists Act of 1948 for the regulation of the profession of dentistry. It maintains uniform standards of dental education in the country. It also maintains a register of qualified dentists.

Pharmacy Council of India : was constituted under the Pharmacy Act, 1948, to regulate the minimum educational standards required for qualification as a pharmacist. Registration of pharmacists is the responsibility of the State Governments/State Pharmacy Councils. By December 1971 there were **87,000 registered pharmacists** in the country.

Indian Nursing Council : This Council established under the Indian Nursing Act, 1947, is responsible for laying down uniform standards of nursing education and for recognition of qualifications and other work relating to these matters such as inspection of schools and maintenance of Nurses ' Register.

Address : All above councils are housed in the Medical Council Building, Temple Lane, Kotla Road, New Delhi 110001.

Availability of Health Services in India : 1960-61 to 1970-71*

Items & Units	1960-61	1965-66	1968-69	1970-71	Targets for Fourth Plan
Hospital beds ('000)	186·0	240·1	255·7	266·2	281·6
Primary Health Centres (number) ..	2,800	4,631	4,919	5,112	5,427
F. P. Centres ('000)	1,649	12,138	28,949	36,800	
Medical Colleges (number)	57	87	93	95	103
Doctors ('000)	70·0	86·0	102·5	115·7	139·9
Nurses ('000)	27·0	45·0	61·0	77·8	88·0
Auxiliary nurse, Midwives ('000)	19·9	36·0	48·0	57·0	70·0
Public Health expenditure (Rs. million) ..	890	1,685	2,600	3,481	4,375·0

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* *Sources* : 1. Draft of Fourth Five-Year Plan. 2. Ministry of Health and Family Planning, Directorate General of Health Services, New Delhi.

Availability of Health Services in India 1960-61 to 1970-71 per 100,000 Population*

Items	1960-61	1965-66	1968-69	1970-71
Doctors	15·9	17·8	19·9	21·5
Beds	42·4	49·7	49·6	49·4
Auxiliary nurse, Midwives	1·4	7·5	9·3	10·6
Nurses	6·2	9·3	11·8	12·7

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* *Sources :* 1. Draft of Fourth Five-Year Plan.
2. Ministry of Health and Family Planning, Directorate General of Health Services, New Delhi.

POPULATION

Census : Most of the population data in India are available from the Indian Censuses. The first synchronous Census of India was taken in 1881, and since then a census has been taken every tenth year. The last of the series is the Census of 1971 which gives the population count as of the sunrise of 1st April 1971. The previous censuses gave the population count as of the sunrise of 1st March, but the mid-term General Election of 1971 made it necessary to shift the census date by one month. The enumeration, therefore, started from 10th March and ended on 31st March, 1971. The households were revisited by the enumerators between 1st April to 3rd April 1971 to bring the picture up-to-date as on the sunrise of 1st April, 1971.

Size: The 1971 Census of India enumerated 547,949,809 persons comprising 283,936,614 males and 264,013,195 females. The present census count fell short by about 13 million from the projected population of 560 million (1st March 1971). Compared to the world's population, India's population constitutes nearly 15 per cent.

Growth : India's population which was 238 million in 1901 increased to 279 million in 1931 and to 548 million in 1971.

The rate of growth of India's population was slow till 1921 and since then it has tended to increase at a faster rate. During the 1911-21 decade the population decreased due to natural calamities and epidemics. In 1931 the population increased by 11·0 per cent from the previous Census. During the decade 1961-71 the population increased by 24·8 per cent which is the highest increase observed so far.

Growth of Population from 1901-1971

Year	Persons	Per cent Decade Variation
1901	238,396,327	
1911	252,093,390	5·75
1921	251,321,213	(—) 0·31
1931	278,977,238	11·00
1941	318,660,580	14·22
1951	361,088,090	13·31
1961	439,234,771	21·51
1971	547,949,809	24·80

Future Growth : The recent increase in India's growth rate is due to a fall in death rate and not due to any increase in birth rate. Death rate has declined by nearly fifty per cent during the past 70 years. Reliable figures of birth and death rates are not available in India because of the deficiency of the registration data. Efforts are being made by the Registrar-General of India to improve the quality of the registration data and a scheme called the Sample Registration System has been launched in different parts of India. The object of the scheme is to have sample areas, both urban and rural, in different States and to obtain reliable birth and death data in those areas. Most reliable estimates, however, point out that the **birth rate** in India in 1961 was around 43 and **death rate** around 21 per 1,000 population. It is estimated that the death rate might decline still further and reach the low level of 10 per 1,000 population by 1980 or so. Birth rate would, therefore, be the crucial factor in determining the future growth of India's population.

State-wise Growth Rate: The decennial growth rate of 1961-71 shows that the highest rate was observed in the Union Territory of Chandigarh followed by Andaman and Nicobar Islands and Delhi. In case of States the highest rate was observed in Nagaland followed by Assam and Haryana. The differential growth rate is due to differential birth and death rates and internal migration.

Age Structure: One of the consequences of high birth rate is that India has a very 'young' population. Nearly 42 per cent of India's population is below the age of 15 years and only 12 per cent of the population are aged 50 years and over.

Rural-Urban : A very large proportion of India's population lives in rural areas, and urban population has grown from about 9 per cent in 1881 to about 20 per cent in 1971. Leaving aside the Union Territories, the most urbanised State in India is Maharashtra, in which about 31 per cent of the population lives in urban areas. Assam, Himachal Pradesh, Nagaland and Orissa States have less than 10 per cent urban population.

A little more than 52 per cent of the urban population of India lives in towns having a population of 100,000 and more. The corresponding figure for 1961 was 48·37 per cent. The growth of population in towns of large size is generally greater than in medium and small towns. In case of Class V towns (population size between 5,000 to 9,999), however, the population decreased during the decade 1961-71. As per 1971 Census, there are only 9 cities which have population of one million and above and they are Calcutta, Greater Bombay, Delhi, Madras, Hyderabad, Ahmedabad, Bangalore, Kanpur and Pune.

Sex Ratio : There are more males than females in India. In 1961 the sex ratio was 941 females per 1,000 males and in 1971 it decreased to 930 females per 1,000 males. Differential mortality by sex may be attributed to this disparity in sex ratio. Only in Kerala and Dadra & Nagar Haveli the sex ratio is favourable to females and in other places it is favourable to males. In West Bengal, Uttar Pradesh, Jammu & Kashmir, Haryana, Punjab, Nagaland, Assam, Delhi, Chandigarh, Himachal Pradesh and Andaman & Nicobar Islands the sex ratio is very lower less than 900 females per 1,000 males.

Literacy : Literacy which is defined as capacity to read and write with understanding in any language was as low as 6 per cent in 1891 and only 8 per cent in 1931. In 1971 it had increased to 29 per cent. Male literacy was found to be nearly 39 per cent and female literacy was found to be about 19 per cent. Rural areas have lower literacy rate than urban areas.

Religion : According to 1971 Census 82·7 per cent of India's population belonged to Hindu religion and about 11·2 per cent to the Muslim religion. The percentage of Christians and Sikhs was 2·6 and 1·9 respectively. (Table at the end of chapter.)

Household Size: The average number of persons per household in India is around five, and this average has not changed much over the past 70 years.

Age at Marriage : India is one of the few countries where child marriages are still prevalent. Although, it is not legal to marry a girl before the age of 16 years, yet it was found in 1961 that in a number of States, the average age of female marriage was below the prescribed legal minimum. The average age of marriage for males in India in 1961 was 21·6 years and of females 15·8 years. While the average marriage age for males has increased only by 2 years over the last 70 years, in case of females it has increased by 3·5 years.

The average marriage age for males and females in 1971 works out to 22·5 and 17·1 years respectively. These figures are based on one per cent sample.

There are significant regional differences in the mean age at marriage of females. Mysore, Tamil Nadu, Kerala, Punjab and Assam have higher marriage age than Andhra Pradesh, Uttar Pradesh, Bihar, Orissa and Madhya Pradesh.

Important urban-rural caste and religious differences are found in the mean age at marriage. Broadly speaking the mean marriage age is higher in the urban areas by 2·3 years than in the rural areas. The Christians tend to marry late followed by Sikhs, Jains, Muslims and Hindus.

Among the Hindus, the scheduled caste have the lowest marriage age.

Age at Widowhood: It was found in the 1911 Census that 17 per cent of the females were widows. This percentage declined to 15·5 in 1931 and to 11 in 1961. The mean age at widowhood of those who are widowed by age 45 was found to be 34 years in the 1951–61 decade and 34·8 years in the 1961–71 decade.

Fertility : The fertility of Indian women is high and between 6 and 7 children are born to a couple who remain married throughout the reproductive period. This average number is, however, reduced to 4 or 5 when all ever-married women, that is, those who are widowed, divorced or separated are also considered.

The pattern of age-specific fertility among females between the ages 15-44 shows that highest fertility exists among females in the ages between 25 to 29 years. The fertility curve shows a low but significant rate in the ages 15-19 years, a sharp rise in the age group 20-24 years with the peak being reached between 25-29 years. The rate then tends to decline and the decline is very sharp after age 35.

Of the children born in 1969, about 55 per cent are of first-three order births and 45 per cent are of the fourth and higher orders. About 20·5 per cent are first order births, 18·1 per cent second order, 16·4 per cent third order, 14·5 per cent fourth order, 11·6 per cent fifth order and 18·9 per cent sixth and higher order births.

There is some evidence to indicate that fertility of those women who are educated above Matriculation and also of those who marry after the age of 19 is lower than of those who are less educated or marry earlier.

Occupational Category : According to 1971 Census, roughly 34 per cent of the population of India is in the working force. About 53 per cent of the males and 13 per cent of the females are workers. Slightly larger proportion of the rural population is in working force. The work participation rate by residence shows that 34·53 per cent of the rural population (53·55 per cent male and 14·55 per cent female) is in working force whereas 29·56 per cent of the urban population (48·62 per cent male and 7·37 per cent female) is in working force.

The work participation rate of 1971 cannot be compared with that of any of the earlier censuses because of change in definition. In the 1961 Census 43 per cent of the total population was recorded as workers. According to the Registrar-General of India, the concept of worker at the 1961 Census tended to inflate workers as persons who were basically non-workers like housewives, students, etc., were included in the category of workers even though their participation was very marginal.

Among the workers as given in the 1971 Census, nearly 43 per cent are cultivators, nearly 26 per cent are agricultural labourers and nearly 31 per cent are engaged in other occupations. In the rural areas nearly 51 per cent of the workers are cultivators, 30 per cent are agricultural labourers and 19 per cent are engaged in other occupations. In urban areas nearly 5 per cent of the workers are cultivators, 6 per cent agricultural labourers and 89 per cent are engaged in other occupations.

Some Demographic Characteristics of India, States and Union Territories

	Population (in '000)		Decennial Growth Rate	Sex-Ratio (Females per 1,000 Males) 1971	Density of Population per sq. km. 1971	Literacy Rate			Proportion of Urban Population in 1971 (Per cent)
	1961	1971				1961	1971	Percentage Increase	
INDIA	439,073	547,950	24·80	930	178	24·03	29·46	22·60	19·91
Andhra Pradesh	35,983	43,503	20·90	977	157	21·19	24·57	15·95	19·31
Assam	11,128	14,958	34·71	897	150	27·47	28·72	4·55	8·87
Bihar	46,456	56,353	21·31	954	324	18·40	19·94	8·37	10·00
Gujarat	20,633	26,697	29·39	934	136	30·45	35·79	17·54	28·08
Haryana	7,590	10,037	32·23	867	224	19·93	26·89	34·92	17·66
Himachal Pradesh	2,812	3,460	23·04	958	62	21·26	31·96	50·33	6·99
Jammu & Kashmir	3,561	4,617	29·65	878	N.A.	11·03	18·58	68·45	18·59
Kerala	16,904	21,347	26·29	1,016	549	46·85	60·42	28·96	16·24
Madhya Pradesh	32,372	41,654	28·67	941	94	17·13	22·14	29·25	16·29
Maharashtra	39,554	50,412	27·45	930	164	29·82	39·18	31·39	31·17
Mysore	23,587	29,299	24·22	957	153	25·40	31·52	24·09	24·31
Nagaland	369	516	39·88	871	31	17·91	27·40	52·99	9·95
Orissa	17,549	21,945	25·05	988	141	21·66	26·18	20·87	8·41
Punjab	11,135	13,551	21·70	865	269	26·74	33·67	25·92	23·73
Rajasthan	2,156	25,766	27·83	911	75	15·21	19·07	25·38	17·63
Tamil Nadu	33,687	41,199	22·30	978	317	31·41	39·46	25·63	30·26
Uttar Pradesh	73,926	88,341	19·79	879	300	17·65	21·77	23·34	14·02
West Bengal	34,926	44,312	26·87	891	504	29·28	33·20	13·39	24·75
Andaman & Nicobar Islands	64	115	81·17	644	14	33·63	43·59	29·62	22·77
Chandigarh	120	257	114·59	749	2,257	51·06	61·56	20·56	90·54
Dadra & Nagar Haveli	58	74	27·96	1,007	151	9·48	14·97	57·91	0·00
Delhi	2,659	4,066	52·93	801	2,738	52·75	56·61	7·32	89·70
Goa, Daman & Diu	627	858	36·88	989	225	30·75	44·75	45·53	26·44
Laccadive, Minicoy & Amindivi Islands	24	32	31·95	978	994	23·27	43·66	87·62	0·00
Manipur	780	1,073	37·53	980	48	30·42	32·91	8·19	13·19
Meghalaya	745	1,012	31·50	942	45	18·47	29·49	59·66	14·55
Arunachal Pradesh	337	468	38·91	861	6	7·13	11·29	58·35	3·70
Pondicherry	369	472	27·81	989	983	37·43	46·02	22·95	42·04
Tripura	1,142	1,556	36·28	943	149	20·24	30·98	53·06	10·43

Some Demographic Characteristics of India, States and Union Territories

	Proportion of Workers in 1971			Proportion of Workers by Occupational Categories in 1971			Mean Age at Marriage in Years in 1961	
	Male	Female	Total	Cultivator	Agr. Labourer	Others	Male	Female
INDIA	52·53	13·18	33·54	42·87	25·76	31·37	21·6	15·8
Andhra Pradesh	57·75	25·24	41·68	32·23	37·40	30·37	22·2	15·3
Assam	48·90	6·15	28·63	56·41	9·35	34·24	25·7	18·5
Bihar	52·40	10·58	31·96	42·38	38·02	19·60	18·6	14·2
Gujarat	51·17	10·65	31·58	43·01	22·06	34·93	21·4	17·1
Haryana	46·93	3·17	26·51	49·28	16·23	34·49	—	—
Himachal Pradesh	51·77	21·46	36·82	71·60	4·25	24·15	21·7	15·6
Jammu & Kashmir	52·19	4·86	30·01	64·01	3·12	32·87	22·4	16·0
Kerala	44·44	13·68	28·91	17·95	30·68	51·37	26·1	19·7
Madhya Pradesh	53·83	19·77	37·30	52·13	26·31	21·56	18·4	13·9
Maharashtra	51·87	21·49	37·21	35·09	28·98	35·93	22·4	15·7
Mysore	54·37	15·13	35·17	39·73	25·73	34·54	24·4	16·3
Nagaland	56·16	47·43	52·09	78·19	1·44	20·37	—	—
Orissa	55·44	7·58	31·64	48·51	27·79	23·70	21·8	16·3
Punjab	52·50	1·67	28·81	42·75	20·03	37·22	21·7 (including Haryana)	17·5
Rajasthan	52·13	10·42	32·22	63·59	9·10	27·31	19·1	14·2
Tamil Nadu	55·96	16·96	36·67	30·97	29·13	39·90	25·2	18·1
Uttar Pradesh	52·80	8·78	32·16	55·99	19·35	24·66	18·8	14·4
West Bengal	48·89	5·36	28·37	31·75	25·75	42·50	24·2	15·9
Andaman & Nicobar Islands ..	61·84	4·53	39·39	13·85	4·69	81·46	25·1	16·9
Chandigarh	53·66	6·35	33·40	2·90	1·56	95·54	—	—
Dadra & Nagar Haveli.. ..	55·43	38·95	47·16	72·40	17·04	10·56	—	—
Delhi	50·41	5·15	30·27	2·69	1·28	96·03	22·9	18·6
Goa, Daman & Diu	47·53	15·73	31·72	23·83	14·84	61·33	26·9	20·7
Laccadive, Minicoy and Amindivi Islands	38·43	13·54	26·11	—	—	100·00	—	—
Manipur	45·68	26·00	35·92	65·83	3·82	30·35	24·7	19·8
Meghalaya	53·36	36·06	44·92	70·82	9·73	19·45	—	—
Arunachal Pradesh	61·39	52·80	57·30	83·92	2·22	13·86	—	—
Pondicherry	48·49	11·55	30·11	11·74	32·60	55·66	—	—
Tripura	49·22	5·28	27·93	53·96	19·70	26·34	24·0	16·2

Some Demographic Characteristics of India's Population, 1891-1971

Year	Population (in million)	Density per square mile	Sex ratio (Females per 1,000 males)	Percentage		Percentage of Population by religion				Percentage of literate and illiterate population		Number of persons per household	Age at marriage in years	
				Rural	Urban	Hindu	Muslim	Christian	Sikh	Literate	Illiterate		Male	Female
1891 ..	235·9	184	958	90·5	9·5	72·3	20·0	0·8	0·7	5·8	94·2	5·43	19·6	12·5
1901 ..	238·4	167	972	89·2	10·8	70·4	21·2	0·99	0·75	5·4	94·7	5·27	20·0	13·1
1911 ..	252·1	175	964	89·7	10·3	69·4	21·3	1·2	0·96	5·9	94·1	4·95	20·3	13·2
1921 ..	251·3	177	955	88·8	11·2	68·6	21·7	1·5	1·0	7·2	92·8	4·89	20·7	13·7
1931 ..	279·0	195	950	88·0	12·0	68·2	22·2	1·8	1·2	9·5	90·5	4·97	18·6	12·7
1941 ..	318·7	245	945	86·1	13·9	65·9	23·8	1·6	1·5	N.A.	N.A.	5·12	19·9	14·7
1951 ..	361·1	302	946	82·7	17·3	85·0	9·9	2·3	1·7	16·7	83·3	4·90	19·9	15·6
1961 ..	439·2	358	941	82·0	18·0	83·5	10·7	2·4	1·8	24·0	76·0	5·16	21·6	15·8
1971 ..	547·9	471	930	80·1	19·9	82·7	11·2	2·6	1·9	29·5	70·5	—	22·5	17·1

Religion-wise break-up

Major religious communities	Population	Percentage to total population	Percentage increase in 1961–71
Hindus ..	453,292,086	82·72	23·69
Muslims ..	61,417,934	11·21	30·85
Christians ..	14,223,382	2·60	32·60
Sikhs ..	10,378,797	1·89	32·28
Buddhists ..	3,812,325	0·70	17·20
Jains	2,604,646	0·47	28·48
Scheduled Castes	79,995,896	14·60	24·18
,, Tribes	38,015,162	6·93	27·23

Sex-wise rural-urban break-up of population

	Persons	Males	Females
Total ..	547,949,809	283,936,614	264,013,195
Rural ..	438,855,500	225,218,984	213,636,516
Urban ..	109,094,309	58,717,630	50,376,679

First Six States Area-wise : Madhya Pradesh (443,459 sq. kms.); Rajasthan (342,272 sq. kms.); Maharashtra (308,000 sq. kms.); Uttar Pradesh (294,364 sq. kms.); Andhra Pradesh (277,254 sq. kms.); and Gujarat (187,091 sq. kms.).

First Six States Population-wise : Uttar Pradesh (88,341,144); Bihar (56,353,369); Maharashtra (50,412,235); West Bengal (44,312,011); Andhra Pradesh (43,502,708); and Madhya Pradesh (41,654,119).

Most Thickly Populated States : (excluding Union Territories) (figures per sq. km.): Kerala (549); West Bengal (504); Bihar (324); Tamil Nadu (317); Uttar Pradesh (300); Punjab (269).

National Average Density: 178 per sq. km.

Density in Union Territories: (per sq. km.) (First three). Delhi (2,738); Chandigarh (2,257); Laccadive, Minicoy & Amindivi Islands (994).

Highest Population Growth Rate in States: Nagaland (39·88 per cent); Assam (34·71 per cent); Haryana (32·23 per cent); Jammu & Kashmir (29·65 per cent); Madhya Pradesh (28·67 per cent); Rajasthan (27·83 per cent).

And Union Territories: Chandigarh (114·59 per cent); Andaman & Nicobar Islands (81·17 per cent); Delhi (52·93 per cent).

All India Sex Ratio: 930 females to 1,000 males. In 1961 the ratio was 941 females to 1,000 males.

Rank of cities population-wise

The following are nine metropolitan cities in India :—

1.	Calcutta Urban Agglomeration ..	7,031,382
2.	Greater Bombay	5,970,575
3.	Delhi Urban Agglomeration ..	3,647,023
4.	Madras Urban Agglomeration ..	3,169,930
5.	Hyderabad Urban Agglomeration..	1,796,339
6.	Ahmedabad Urban Agglomeration	1,741,522
7.	Bangalore Urban Agglomeration ..	1,653,779
8.	Kanpur City Urban Agglomeration	1,275,242
9.	Pune Urban Agglomeration ..	1,135,034

A city is regarded as metropolitan when it crosses one million population.

Working Force Participation Rates and Percentage of Workers in Secondary Sector in Metropolitan Areas since 1901

Cities		1901	1911	1921	1931	1951	1961	1971
1. Greater Bombay (M.C.) ..	(A)	54·9	59·0	59·6	47·2	45·6	40·6	36·6
	(B)	34·2	32·8	31·4	29·9	39·2	43·5	N.A.
2. Calcutta (M.C.)	(A)	55·0	56·3	53·9	48·0	42·9	40·4	37·1
	(B)	21·3	18·0	17·0	16·3	24·0	29·1	N.A.
3. Delhi (U)	(A)	42·4	42·2	43·4	40·6	35·8	31·7	30·7
	(B)	42·6	36·3	31·2	28·5	29·3	26·9	N.A.
4. Madras (M.C.)	(A)	33·2	36·0	36·4	47·4	30·8	30·5	29·0
	(B)	31·0	28·3	25·1	15·0	26·7	31·3	N.A.
5. Hyderabad (T.G.)	(A)	N.A.	41·0	41·9	55·8	30·4	29·9	24·3
	(B)	N.A.	12·7	11·4	13·5	26·3	23·2	N.A.
6. Bangalore (M.C.)	(A)	36·2	34·5	35·0	33·7	30·6	30·9	29·6
	(B)	26·5	31·2	28·0	37·4	38·7	40·3	N.A.
7. Ahmedabad (T.G.).. ..	(A)	43·0	43·3	44·0	N.A.	35·3	31·1	28·5
	(B)	46·3	56·5	52·4	N.A.	55·5	55·6	N.A.
8. Kanpur (T.G.)	(A)	46·0	45·4	46·9	40·8	36·5	32·6	30·4
	(B)	22·9	21·2	21·3	29·3	46·6	40·2	N.A.
All India	(A)	N.A.	48·2	47·0	43·6	39·2	43·0	33·5
	(B)	N.A.	10·4	9·5	9·2	10·2	10·6	N.A.

SOURCE : International Institute of Population Studies, Deonar, Bombay-400088.

NOTE : (*i*) A : Percentage of economically active persons. (*ii*) B : Percentage of workers engaged in the Secondary Sector.
(*iii*) U : Urban ; M.C. : Municipal Corporation ; T.G. : Town Group.

Males per 1000 Females in the Metropolitan Areas of India since 1901

Cities	Years						
	1901	1911	1921	1931	1951	1961	1971
1. Greater Bombay (M.C.)	1,600	1,859	1,870	1,764	1,662	1,507	1,396
2. Calcutta (M.C.)	1,931	2,034	2,052	2,120	1,723	1,634	1,567
3. Delhi (U)	1,225	1,351	1,488	1,493	1,327	1,286	1,253
4. Madras (M.C.)	1,017	1,056	1,096	1,112	1,085	1,110	1,109
5. Hyderabad (T.G.)	1,075	1,067	1,068	1,129	1,013	1,076	1,079
6. Bangalore (M.C.)	1,040	1,066	1,120	1,108	1,112	1,146	1,143 (U.A.)
7. Ahmedabad (T.G.)	1,099	1,179	1,310	1,173	1,305	1,243	1,200 (M.C.)
8. Kanpur (T.G.)	1,299	1,373	1,497	1,440	1,432	1,354	1,313

SOURCE : International Institute of Population Studies, Deonar, Bombay-400088.
NOTE : U : Urban ; M.C. : Municipal Corporation ; T.G. : Town Group.

MIGRANTS AND REFUGEES

BANGLA DESH :

FOLLOWING the exodus which started in January, 1964, 854,000 refugees had crossed over to India by the end of 1969. By the end of 1970 this figure rose to 1·11 million.

Reception Centres were opened at Petrapole, Hasnabad and Basirhat in West Bengal and defunct relief camps were reactivised and several new camps opened to rehabilitate them.

By the end of 1969 there were only 5,121 families to be rehabilitated but with the fresh influx of 259,436 by 1971 the number went up to 51,332 families. The astronomical figure of almost 9·89 million refugees who had come into India in 1971 after the revolution in East Pakistan had made the rehabilitation problem a truly gigantic one.

Rehabilitation of migrants is treated as a national problem. Resettlement is undertaken mainly in agriculture, small trade and industries. Efforts are also made to secure employment in Government departments and public sector undertakings.

Upto 31st December, 1971, 38,820 families had been rehabilitated in agriculture, small trade and industry in various States including Dandakaranya Project, especially undertaken for refugees.

Besides, 5,733 families had settled down in Tripura, on exchange of their properties in erstwhile East Pakistan, thus making a total of 44,533.

New migrant families are being rehabilitated in agricultural projects taken up in Madhya Pradesh, Maharashtra, Assam, Andhra Pradesh and Arunachal Pradesh etc. They are also being rehabilitated in Dandakaranya and in the Andaman and Nicobar Islands. Efforts are continuing to locate more agricultural lands for the resettlement of migrants who came during 1970.

NEW MIGRANTS

Following statement shows the figures of migration of new migrants from erstwhile East Pakistan from 1–1–1964 to 25–3–1971 :

Year	West Bengal	Assam	Tripura	Total
(1)	(2)	(3)	(4)	(5)
1964	419,321	173,782	100,039	693,142
1965	81,491	11,062	15,353	107,906
1966	4,057	1,854	1,654	7,565
1967	5,067	7,161	12,299	24,527
1968	3,673	4,821	3,120	11,614
1969	3,713	2,765	3,290	9,768
1970	232,675	11,905	6,580	251,160
1971	6,622	968	686	8,276
Total	756,619	214,318	143,021	1,113,958

RELIEF CAMPS

Following statement shows the number of relief camps for new migrants from erstwhile East Pakistan in different States and their population (as on 25-12-1971) :

(Families)

States	No. of relief camps	Population: Non-Liability (Agriculturist, Non-agriculturist, & unscreened)	Population: Permanent Liability	Total
STATE CAMPS				
1. Andhra Pradesh	1	998	..	998
2. Assam	9	1,955	1,503	3,458
3. Bihar	5	5,013	338	5,351
4. Maharashtra	5	4,117	442	4,559
5. Madhya Pradesh	13	2,944	63	3,007
6. Orissa	4	1,985	131	2,116
7. Rajasthan	1	807	53	860
8. Tripura	1	142	835	977
9. Uttar Pradesh	2	2,051	44	2,095
CENTRAL CAMPS				
10. Mana, Kurud, Vadodara and Bhata	1	16,628	1,333	17,961
Total	42	36,640	4,742	41,382

Note :—Out of 37,843 families in camps, 28,817 are agriculturists, 3,274 non-agriculturists and 5,752 unscreened. This does not include 1,750 families consisting of 8,750 persons moved to tented camps in 35 villages in Chanda Project and 10,784 families consisting of 49,169 persons moved to relief and work-site camps in Dandakaranya.

PROGRESS OF REHABILITATION

Statement shows the progress of rehabilitation of new migrants and fresh influx of families from erstwhile East Pakistan in different States :

State	Families Rehabilitated upto (31-12-1971)			Total
	Agriculture	Small Trade	Industry	
1	2	3	4	5
Andhra Pradesh	844	14	..	858
Assam	8,722	3,942	..	12,664
Bihar	454	1,008	..	1,462
Maharashtra	4,346	436	..	4,782
Madhya Pradesh	2,626	697	31	3,454
Manipur	145	..	..	145
Arunachal Pradesh (N.E.F.A.)	2,902	..	..	2,902
Orissa	..	184	67	251
Punjab	..	3	..	3
Tripura	5,675	58	..	5,733*
Uttar Pradesh	775	105	193	1,073
Mysore	653	..	..	653
Andamans	562	..	..	562
Dandakaranya	9,491	520	..	10,011
Total	37,295	6,967	291	44,553

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* These families settled down in Tripura on exchange of their properties in erstwhile East Pakistan.

OLD MIGRANTS FROM ERSTWHILE EAST PAKISTAN

The refugees from erstwhile East Pakistan who had come over to India upto the 31st March, 1958, are known as 'old migrants'. They number about 4·12 million and a bulk of them *viz.*, over 3·1 million constituting three fourths of the total migrant population have stayed on in West Bengal.

Expenditure on Old Migrants : The residuary problem of rehabilitation of old migrants in West Bengal was assessed and it was estimated that a sum of Rs. 218·8 million would be required for the liquidation of the refugee problem. A sum of Rs. 180 million had so far been sanctioned. The implementation of the various schemes covered by the residuary assessment rests with the West Bengal Government. As on 31st December 1971 the total expenditure incurred on the relief and rehabilitation of old migrants in West Bengal was estimated to be about Rs. 1,660 million.

D. P.s FROM WEST PAKISTAN

As a result of the partition of India in August, 1947, about 4·74 million non-Muslims came to India from West Pakistan. Most of them were in destitute condition and needed immediate relief and facilities for rehabilitation. The immediate problem tackled by the Government at the time was that of provision of relief and accommodation. After this phase was over, the scheme for payment of compensation to the displaced persons who had left their properties in West Pakistan was undertaken. As a result 507,034 applications were received for payment of compensation and rehabilitation grants upto 30th November, 1971. The Government of India had created a 'Compensation Pool' which consisted of the evacuee properties left by Muslims who migrated to Pakistan and Central Government contribution to the extent expenditure was incurred by them on housing schemes and loans to State Governments and D.P.s for rehabilitation purposes. The compensation payable to the displaced persons in respect of their verified claims was paid in cash and also in the form of adjustment of cost of properties and towards the liquidation of the loans etc. due from them. As on November, 1971, almost all applications for compensation were settled except 34 cases, involving a payment of Rs. 1,911·6 million out of which Rs. 614·2 million were in cash.

OLD WEST PAKISTAN MINORITIES

Migration of minority communities from West Pakistan was more or less complete by 1949. About 4·74 million displaced persons had come over to India. The work relating to their rehabilitation was practically over by the year 1962.

Urban Properties : The total number of evacuee properties left by the Muslims was 302,000 while 200,000 properties were constructed, either directly by the Government of India or indirectly through the State Governments etc. Of the foregoing, over 300,000 evacuee properties and almost all the Government built properties had been disposed of by 31st December, 1970, leaving a balance of only 5,000 undisposed properties.

Rural Resettlement : About 2·42 million hectares of agricultural land was abandoned by Muslims who had migrated to Pakistan. These lands were also utilised for payment of compensation to the displaced persons migrating from the rural areas of West Pakistan.

EXPENDITURE ON D.P.s

Upto the end of 1971–72, an estimated sum of Rs.9,730·00 million will have been spent on displaced persons etc., as per details on next page.

(In Rs. million)

	West Pakistan	Old East Pakistan	Total
(*a*) Actual expenditure upto the end of 1970–71			
(*i*) Expenditure on displaced persons from Pakistan.			
Grants	1,033·0	1,598·9	2,631·9
Dandakaranya Scheme	..	564·1	564·1
Rehabilitation Reclamation Scheme	..	78·8	78·8
Rehabilitation Industries Corporation	..	49·9	49·9
Loans	264·4	578·2	845·6
Housing	663·7	473·7	1,137·4
Establishments	32·3	37·7	70·0
Loans paid by Rehabilitation Finance Administration upto 31-12-1960	72·8	39·4	112·2
Miscellaneous	00·1	38·9	39·0
	2,069·3	3,459·6	5,528·9
(*ii*) Relief measures in Jammu & Kashmir, on account of the conflict with Pakistan			158·2
(*iii*) Expenditure on Repatriates from Burma and Ceylon etc.			139·6
(*iv*) Expenditure on Tibetan Refugees			17·2
Total upto 1970–71			5,843·9
(*b*) Revised Estimates for 1971–72			3,886·1
Grand Total			9,730·0

NOTES :

1. The above figures do not include expenditure on payment of compensation out of the Compensation Pool to Displaced Persons from West Pakistan (about Rs 1,911·2 million) and the ex-gratia payments to migrants from the Pakistan-held areas of Jammu and Kashmir (Rs. 46·5 million).

2. The above figures do not include expenditure incurred by other Ministries on the Relief and Rehabilitation of Displaced Persons/Migrants/Repatriates.

3. The Revised Estimates 1971–72 include a sum of Rs. 3,450 million for expenditure on refugees from erstwhile East Pakistan (now Bangla Desh).

ENCLAVES & REHABILITATION

Rehabilitation of Persons Affected by the Transfer of Indian Enclaves to Pakistan : The Nehru-Noon Agreement of 1958 envisaged the exchange of 123 Indian Enclaves in Pakistan for 74 Pakistani Enclaves in the Indian Union. The Constitution Amendment Act, 1960, and the Acquired Territories Merger Act, 1960, provide for the exchange of enclaves after demarcation. No exchange of the areas has so far actually taken place owing to Pakistan's insistence that demarcation of erstwhile East Pakistan/West Pakistan borders should take place simultaneously with the demarcation of Beru Bari which is *sub judice*.

As regards the families from Indian Enclaves, who have already come over to the mainland or who might come later, it has been decided to give them rehabilitation assistance as admissible to the new migrants.

Schemes Sanctioned for Rehabilitation of 1,168 Families : A sum of Rs. 12·2 million has so far been sanctioned for the rehabilitation of 1,168 families (1,147 agriculturists and 21 non-agriculturists) who have come over from these enclaves to Jalpaiguri, Cooch Behar, and West Dinajpur districts in north Bengal.

A provision of Rs. 3 million has been made for the rehabilitation of these families in Budget Estimates for 1971–72.

Relief and Resettlement Operations in Jammu & Kashmir and other Border Areas : The Indo-Pak conflict of August-September, 1965, posed the problem of providing relief to nearly 364,900 persons affected in the States of Jammu and Kashmir, Punjab and Rajasthan. 300,000 of these persons belonged to Jammu and Kashmir, 52,000 to Punjab and 8,400 to Rajasthan apart from 4,500 persons of the "minority" community who had migrated from West Pakistan to Rajasthan.

These people were persuaded to go back to their original sites, and, in deserving cases, given grants for reconstruction or repairs of houses, shops and maintenance grants and trade loans. In some cases, alternative sites were developed for resettling these families.

The work in respect of relief and rehabilitation of people affected by the Indo-Pak conflict is now almost over.

DANDAKARANYA PROJECT

The Dandakaranya Development Authority, was constituted in the year 1958, for the resettlement of displaced persons from East Pakistan and for the development of the area. 19,906 families had been rehabilitated by the end of October 1971. The programme for opening up of the area by development of infrastructure, such as roads, culverts, irrigation projects, schools, hospitals, etc., progressed satisfactorily. Most of them have been provided work and have been lodged in work site camps.

Area of Operations: The Project area is spread over the districts of Bastar in Madhya Pradesh and Koraput in Orissa. The actual area of operation is confined to the four resettlement zones, namely, Umerkote and Malkangiri in Koraput district of Orissa and Paralkote and Kondagaon zones in Bastar district of Madhya Pradesh. The headquaters of the Project are located at Koraput while the offices of the various organisations of the Project are located at convenient places like Jagdalpur, Kondagaon and Ambaguda.

AGRICULTURAL PROJECTS

An agreement was concluded with the Government of Japan in August, 1970, for the agricultural development of the Paralkote zone in the Dandakaranya Project. Six Japanese experts have already arrived in the project area. The Government of Japan would also provide, at its own expense, machinery, vehicles and tools required for the implementation of the development programme. Model blocks are proposed to be taken up for intensive agricultural and community development in the area.

Agriculture : All the 14,579 agriculturist families in position at village sites have been allotted land for agriculture. The cultivated area during the last Khariff (1971) was 30,922·15 hectares and under Rabi it was 121·40 hectares. The crops grown were paddy, hybrid maize, mesta, til, arhar, urad, moong, ragi and lobia.

Irrigation : In order to provide irrigation facilities, two dams, namely, Bhaskal (Umerkote) and Pakhanjore had already been completed with an irrigated area of 4,856·23 hectares of which about 4,046·86 hectares would benefit the local Adivasis. Two other dams, *viz.*, the Paralkote and the Satiguda (Malkangiri) were under construction. These dams would irrigate about 25,292·87 hectares. Apart from this 32 minor irrigation schemes and 24 lift irrigation schemes had been completed. 5 minor schemes were under execution.

Soil Conservation : Till November, 1971, 41,371·56 hectares had been contour surveyed. 35,776·89 hectares had been contour bunded by machine and 4,094·14 hectares had been contour bunded by manual labour.

Water Supply : 1,192 tubewells had been completed. In addition, 221 masonry wells, and 197 village tanks had been completed. 61 masonry wells, 13 village tanks and 28 headwater tanks were under construction.

Education : 219 primary schools, 22 middle schools and 2 high schools and one Industrial Training Institute are established.

Release of land : The resettlement of families in Dandakaranya is dependent upon the release of suitable lands by the State Governments. The State Governments of Madhya Pradesh and Orissa had upto November, 1971, released to the Project authorities 38,827·35 hectares and 57,552·52 hectares of land in Bastar district of Madhya Pradesh and Koraput district of Orissa respectively, making up a total of 96,379·87 hectares.

Reclamation : An area of 57,040.89 hectares had been found suitable for cultivation after soil survey. Out of this, 54,278·1 hectares had been fully reclaimed. Reclamation of the remaining 2,762·79 hectares was in progress.

Resettlement : 19,906 families of displaced persons had been moved to village sites upto the end of October, 1971. After excluding those who deserted of their own accord, 15,410 families (5,399 old migrants and 10,011 new migrants) were living in the villages. Of these, 14,579 families (5,088 old migrants and 9,491 new migrants) were agriculturists and 831 families (311 old migrants and 520 new migrants) were non-agriculturists.

In the wake of the heavy influx from East Pakistan during 1970, it was decided to induct 10,000 families in the Project. In pursuance of this decision, 10,784 families were dispersed from West Bengal to the Project area. These families had been moved to the work sites in the Paralkote and Malkangiri zones of the Project for gainful employment.

Villages : In the 281 villages set up for displaced persons, 9,359 houses had been constructed and 2,013 houses were under construction.

Medical and Public Health : 6 hospitals and 7 primary health centres, 3 dispensaries and mobile medical units had been established.

Animal Husbandry : 15,782 pairs of bullocks and 3,510 heifers and calves have been procured and distributed to the settlers

Area Development

Roads : 439·36 kms. of main roads, 569·71 kms. of link roads and 259·11 kms. of roads connecting tribal settlements have been completed.

Expenditure : A net expenditure of Rs. 443·2 million had been incurred on the Dandakaranya Development Scheme upto 30th September, 1971. The break-up of which is given below :

General Development Rs. 99·5 million ; Tribal Welfare Rs. 69·0 million ; Resettlement of D.Ps. Rs. 211·1 million ; Residual value of machinery assets and recoveries Rs. 63·6 million ; Total 443·2 million.

Programme for 1972-73 : The programme for the year 1972–73 envisages resettlement of 1,800 families of new migrants in agriculture and 200 families in non-agricultural occupations. Besides, 100 families of landless Adivasis were also proposed to be settled during the year.

Facilities and Rehabilitation Benefits : An agriculturist settler family is allotted about 2·25 hectares of agricultural land. Besides, 668·90 sq. meters are being provided for homestead plots while 0·25 hectares around homestead plots are allotted for horticulture. The non-agriculturist families are given an agricultural plot of 1·67 hectares and homestead plots of 668·90 sq. meters.

Progress of Rehabilitation : The overall progress of rehabilitation of new migrants in different States, other than the Dandakaranya area and Andaman Islands, is briefly indicated in the following paragraphs.

Andhra Pradesh : Isagaon Project : As against 1,000 families proposed to be settled in this project, 844 families were resettled as on 21st December, 1971. 2,739·82 hectares of land have been reclaimed and 1,755·67 hectares have been brought under cultivation.

A textile centre at Ramagudam had been sanctioned for providing employment to 1,000 new migrants and repatriates. Construction of 1,000 residential houses and a powerloom factory building had been completed. Orders had been placed for the purchase of machinery and equipment.

Assam : Till 31st December, 1971, 12,201 families *viz.*, 8,722 agriculturists, and 3,479 non-agriculturists, had been settled in various rehabilitation sites in Assam. For the benefit of the new migrants living in Assam, 13 new primary schools, and 1 dispensary had been sanctioned. To cater for the increased needs of the new migrants, financial assistance had also been provided to one existing high school for its expansion. 90 new migrants have been trained as motor drivers-cum-mechanics.

On 1st January, 1971, there were 2,169 families living in 9 relief camps in Assam awaiting rehabilitation.

Bihar : 454 agriculturist families have been settled in various rehabilitation sites in the districts of Purnea, Champaran, etc. Four schemes have recently been sanctioned in the State for resettlement of 374 agriculturist families in Saharsa and Purnea districts. Non-agriculturists had been settled in rehabilitation sites in Bihar upto 31st December, 1970. About 500 more families were moved to various rehabilitation sites by 31st March, 1971. One primary school had been sanctioned.

Madhya Pradesh : The Government of Madhya Pradesh had agreed to rehabilitate 4,050 new migrant agriculturist families in three rehabilitation sites at Betul, Panna and Sargaja. Upto 31st December, 1971, a total area of 7,590·91 hectares of land had been reclaimed in these projects and 2,726 families were resettled.

3,224 families *viz.*, 2,674 agriculturists and 550 non-agriculturists (including 154 at Mana and 74 at Kirandul) had been resettled in Madhya Pradesh by the end of December, 1970. 22 primary schools, 3 middle schools, 1 high school, 1 dispensary-cum-maternity centre, 3 dispensaries and 1 hospital had been sanctioned in the State for the benefit of these migrants. A few schemes to impart training in carpentry, cane and bamboo work etc., had also been sanctioned.

Maharashtra : The Government of Maharashtra had agreed to resettle 6,000 new migrant agriculturist families in Chanda and make available, for the purpose, an area of 13,354·64 hectares of forest lands. Upto the end of 1971, 13,021·96 hectares of land had been reclaimed and about 7,590·91 hectares brought under cultivation. 4,346 families have been resettled. 637 more families are scheduled to move to the project site by the middle of 1973.

Manipur : 145 families of new migrants had been rehabilitated in nine new villages in Manipur. 270·74 hectares of land were brought under cultivation by the migrants.

Arunachal Pradesh (N.E.F.A.) : It was originally proposed to resettle 3,000 new migrant agriculturist families in Arunachal Pradesh. 2,902 new migrant agriculturist families have already been rehabilitated there upto 31st December, 1970, and the administration has almost fulfilled its commitment. Two ambulance vans had been sanctioned for providing medical assistance.

Orissa : By the end of December 1970, 251 non-agriculturist families had been rehabilitated in Orissa in small trade and industries. Some training schemes had also been sanctioned for imparting vocational and technical training. About 570 persons had completed training under these schemes. One dispensary had been set up for the new migrants.

Tripura : Nearly 5,715 families *viz.*, 5,675 agriculturists and 40 non-agriculturists, came over to Tripura on exchange of their properties with the properties of Muslims who had gone to Pakistan. These families did not seek admission in relief camps. All these families have by now been rehabilitated in Tripura. To provide educational and medical facilities, financial assistance had been given for expansion of one existing college and one hospital.

Uttar Pradesh : 1,918 families, had been settled in different rehabilitation sites in Uttar Pradesh, till the close of 1971. These families had mostly been resettled in the districts of Pilibhit, Kheri and Bareilly. 10 primary schools, 3 dispensary-cum-maternity centres, and 3 compounders' unit-cum-maternity centres had been set up for the benefit of these migrants. 156 persons had also been trained in I.T.I., Hastinapur.

CEYLON REPATRIATES

Under the Indo-Ceylon Agreement, 1964, 525,000 stateless persons of Indian origin are to be repatriated from Ceylon over a period of 15 years. The actual repatriation began in 1967 and upto 31st December 1971, 46,367 repatriates had arrived in India. For the rehabilitation of Ceylon repatriates a number of schemes in agriculture, plantation, small trade and business have been sanctioned by the Government.

MOZAMBIQUE REPATRIATES

About 600 families comprising of roughly 2,300 persons have returned to India from Mozambique and have mostly settled in Gujarat State.

The Gujarat Government has reported that almost all the families have since been resettled.

In order to afford immediate relief to the repatriates who had left assets in Mozambique, it was decided to give them ex-gratia grants. The amount of ex-gratia grant is limited to Rs. 5,000 in cases where the assets left were claimed to be in excess of Rs. 5,000. In other cases, the ex-gratia payment was limited to the value of assets left in Mozambique. A sum of Rs. 2·63 million had been disbursed as ex-gratia grant in 600 cases upto the 31st December, 1971.

TIBETAN REFUGEES

About 56,000 Tibetan refugees have entered India, Sikkim and Bhutan since 1959. During 1970–71, the number of Tibetan refugees who entered India was 65. About 45 refugees had gone during 1971 to Switzerland for permanent settlement. The Government of Canada has offered to take 240 Tibetan refugees to Canada for permanent resettlement. The first batch of 93 refugees left for Canada in March 1971.

So far, about 29,000 Tibetan refugees have been rehabilitated in agricultural settlements, small-scale industries, and handicraft centres set up in various parts of the country. About 6,500 children are studying in different nurseries and schools run or aided by the Central Tibetan Schools Administration. A little over 4,000 refugees have found different types of jobs by themselves.

Land Settlement

The main land settlements at present are at Bylakuppe, Mundgod and Cauvery Valley in Mysore State ; at Mainpat in Madhya Pradesh ; at Chandragiri and Mahendragarh in Orissa ; at Tezu and Changlang in Arunachal Pradesh and at Paro, Thimpu, Jumanyang and Khasakha in Bhutan. Handicraft centres are functioning at Darjeeling (West Bengal), Rajpur (U.P.), Dalhousie, Simla, Dharamsala and Paprola (Himachal Pradesh).

Industrial Projects

A Tibetan Industrial Rehabilitation Society was set up in 1965 to provide administrative framework to formulate and implement industrial projects for the rehabilitation of Tibetan refugees with funds to be provided by voluntary aid agencies. The revised employment potential of the projects is estimated at 4,000 persons. The Society has so far received an aid of about Rs. 8·4 million from various foreign aid agencies. It established the following projects in Himachal Pradesh :—(*i*) Woollen Mill at Bir ; (*ii*) Lime Quarry at Kumraoh ; (*iii*) Dehydrated Lime Plant at Sataun ; (*iv*) Fibre Glass Industry at Paonta ; (*v*) Tea Estates at Bir and Chauntra ; (*vi*) Tibetan Craft Community, Paprola ; (*vii*) Sakya agricultural settlement at Puruwala.

Resettlement of Lamas : The Buxa Lama Camp in West Bengal has since been closed. The Lamas have been moved to Mysore State for rehabilitation. 600 Lamas have been moved to Bylakuppe. The Lamas have formed themselves into co-operative societies. 162 hectares of land at Mundgod and 60·75 hectares of land at Bylakuppe have since been reclaimed and put under cultivation. The scheme for the rehabilitation of Lamas is estimated to cost Rs. 3,360,100. It is being implemented in collaboration with the United Nations High Commission for Refugees, who has agreed to contribute to the extent of Rs. 1·8 million.

BURMA REPATRIATES

8,785 repatriates arrived from Burma during the year 1971–72. The total number of repatriates from Burma is now 190,989 or approximately 63,663 families. The repatriates are being resettled in the States of their origin. Rehabilitation assistance has been given to about 61,563 families in the form of business loans and allotment of agricultural land. Assistance was also provided through grant of educational concessions to the students, loan for construction of houses, employment in offices, industries and undertakings etc.

A sum of Rs. 20·775 million as grant and Rs. 98·592 million as loan had been sanctioned to the State Governments upto 29th February, 1972, for complementation of relief and rehabilitation schemes.

State-wise distribution of repatriates from Burma in India. (As reported upto 29th February, 1972)

Name of the State/Union Territory	Persons
Tamil Nadu	102,809
Andhra Pradesh	27,573
Assam	980
Bihar	4,948
Gujarat	977
Kerala	817
Madhya Pradesh	92
Mysore	137
Maharashtra	216
Orissa	2,597
Punjab	783
Rajasthan	257
Uttar Pradesh	5,851
West Bengal	4,127
Tripura	92
Goa	3
Manipur	3
Delhi	545
Haryana	9
Jammu and Kashmir	11
Andaman and Nicobar Islands	10
Himachal Pradesh	6
Unknown destinations	38,146**
	190,989

** A number of repatriates with unknown destinations are reported to have gone to the States of Andhra Pradesh, Orissa, West Bengal, Kerala, Pondicherry, Himachal Pradesh, Jammu and Kashmir, Haryana, Tamil Nadu, Gujarat, Bihar, Chandigarh, Manipur and Andaman and Nicobar Islands, etc.

Statement showing the number of Burma repatriates who have been given rehabilitation assistance in various States/Union Territories (as reported upto 31-12-1971).

Name of the State/Union Territory	Business Loan	Employment	Agricultural land allotted	Other* assistance	Total
1	2	3	4	5	6
Andhra Pradesh	8,385	5,775	67	1,089	8,452
Assam	287	..	..	..	287
Bihar	258	1	26	273	284
Gujarat	404	120	6	1	410
Haryana	22	..	..	..	22
Himachal Pradesh	5	3	..	2	5
Jammu and Kashmir	7	..	..	..	7
Kerala	1,733	..	..	..	1,733
Madhya Pradesh	67	..	46	..	113
Mysore	35	..	162	..	197
Orissa	2,100	245	47	1,650	2,147
Punjab	349	1	..	154	349
Rajasthan	115	..	..	..	115
Tamil Nadu	42,498	3,098	1,035	6,784	43,533
Uttar Pradesh	1,503	30	128	196	1,631
West Bengal	1,873	..	..	1,523	1,873
Andaman and Nicobar Islands..	54	38	..	..	54
Chandigarh	24	..	..	..	24
Delhi	143	..	..	213	143
Goa	1	..	..	..	1
Manipur	141	..	..	..	141
Pondicherry	40	..	..	..	40
Tripura	2	2	..	..	2
Total	60,046**	9,313	1,517	11,885	61,563

* Assistance given for educational concessions, allotment of licences and fair price shops, old age pensions, homestand plots and shops etc.

** This figure also includes some families who have been given partial assistance and are yet to be given some more assistance.

PERMANENT LIABILITY HOMES

According to information available, as on 31st December, 1971, nearly 4,770 families comprising 16,300 persons of permanent liability category were residing in different relief camps. It has been decided to set up new permanent liability homes in different States, since vacancies in the existing homes cannot accommodate all the existing permanent liability families in various camps.

The number of permanent liability families already admitted to existing homes is as under :—

Name of the Home	No. of families admitted
1. Kasturba Niketan, Lajpat Nagar, New Delhi	152
2. Meherpur Home, Assam	264
3. Daliganj Home, Lucknow	30
4. Improvised Permanent Liability Home, Arundhutinagar, Tripura	570
5. Mahila Ashram, Karnal (Haryana)	81
6. Permanent Liability Home, Amtali, Tripura	85
7. Durgakund Home, Varanasi (Uttar Pradesh)	49
8. Permanent Liability Home at Mana—Phase I	462
Phase II	588
	2,281

The new Permanent Liability Homes to be constructed in different States are shown as under :—

Name of the Home and the State	Capacity (families)		Amount sanctioned
1. Permanent Liability Home, Mana, Raipur (Madhya Pradesh) — in four phases	2,000	Phase I (completed)	1,169,090
		Phase II (completed)	1,555,220
		Phase III	2,053,386
		Phase IV	1,667,800
		Water supply arrangement for Phases I, II and III	432,700
2. Permanent Liability Home at Amtali, Tripura	300		1,760,300
3. Permanent Liability Home at Birsi, Maharashtra (completed)	300		486,000
4. Permanent Liability Home at Tura, Meghalaya :	300		2,031,400
Permanent Liability Home at Bemunigaon, Assam	1,000		5,332,000
5. Permanent Liability Home at Sunabeda, Orissa	500		1,290,939
Total	4,400		17,778,835

Bangla Desh: With the creation of Bangla Desh all the refugees, who at one stage numbered 9·89 million, have gone back. The total expenditure incurred by India during the 10 months that they stayed here was about Rs. 2,400 million. The refugees outnumbered the population of 58 countries of the world.

DEFENCE SERVICES

SUPREME COMMANDER : President of India; **Chief of Army Staff :** Gen. G. G. Bewoor; **Chief of Naval Staff :** Admiral S. N. Kohli; **Chief of Air Staff :** Air Marshall O. P. Mehra.

(Further details under "Ministry of Defence.")

SECTOR COMMAND

Army : The army is organised into 5 commands under Army Headquarters. Each command is further divided into areas, independent sub-areas and sub-areas. The Command is commanded by a General-Officer-Commanding-In-Chief (called Army Commander) of the rank of Lt. General; Areas by General-Officers Commanding (Maj. Generals) and Independent Sub-Areas by Brigadiers.

All these are static commands but each can form a mobile tactical headquarters for exercising operational control over its mobile formations.

[Army Commands with headquarters in brackets: Eastern Command (Calcutta, West Bengal), Southern Command (Pune, Maharashtra), Western Command (Simla, Himachal Pradesh), Central Command (Lucknow, Uttar Pradesh), and Northern Command (Udhampur, Jammu & Kashmir).]

Mobile formations consists of Corps, Divisions, Brigade Groups, Independent Brigades, and Brigades. A Corps Headquarters is placed under a Command Headquarters to command two or more Divisions or a combination of a Division, Brigade Groups and Independent Brigades.

(For sector commanders see "Ministry of Defence" in Central Govt. list.)

Navy : The Chief of Naval staff exercises command through the following authorities:

(*a*) The Flag-Officer Commanding In Chief, Western Naval Command, Bombay: Covers: Bombay, Okha, Jamnagar and Lonavla.

(*b*) The Flag Officer Commanding-in-Chief, Eastern Naval Command, Vishakhapatnam: Covers: Vishakhapatnam, Calcutta, Andaman and Nicobar and Madras.

(*c*) The Flag Officer Commanding, Southern Naval Area, Cochin: Covers: Cochin, Coimbatore and Goa.

(For Commanding Officers see "Ministry of Defence" in Central Govt. list.)

Air Force : There are five commands: The Western Air Command (Palam, New Delhi), the Central Air Command (Allahabad, Uttar Pradesh), the Eastern Air Command (Shillong, Assam), the Training Command (Bangalore, Mysore), and the Maintenance Command (Nagpur, Maharashtra). Some units with distinct functions are controlled by Air Headquarters directly.

(For Commanding Officers see "Ministry of Defence" in Central Govt. list.)

India's Frontiers : The country has to protect 15,168 Kms. of land frontier — 2,966 Kms. with Pakistan; 3,950 Kms. with Bangla Desh; 3,862 Kms. with China; and, 4,390 Kms. with Nepal. Besides it has a coastline of 5,689 Kms.

Defence Policy : Broadly India follows a policy of non-alignment. On August 9, 1971, India signed a **friendship treaty with Russia.**

Planning : After the shortcomings of the 1962 war with China (Oct. 20 — Nov. 21) the need for better planning and modernisation was urgently felt. In 1964 a new type of a roll-on Five Year Plan was put into action with Rs. 62,000 million. Each year, after a review of the progress, the year that has passed is dropped and one more added.

Spending : Rs. 14,083·6 million were earmarked for defence in 1972-73. According to the Institute of Strategic Studies, London, India spends 3·4 per cent of its Gross National Product on defence. In 1962-63 it was 2·9 per cent and in 1971-72 it was estimated at 3·8 per cent. In 1962-63 the defence budget was Rs. 8,600 million. The amount spent on Research and Development has doubled to Rs. 300 million and is expected to reach Rs. 460 million by 1975-76.

Strength of the forces : India maintains 828,000 men in 25 divisions of the Army.

The Air Force has 45 squadrons — 10 equipped with modern supersonic aircrafts and 5 helicopter squadrons. The number of combat aircrafts is 625 and personnel 80,000.

The Navy consists of an aircraft carrier, 4 submarines, 2 cruisers, 24 frigates and destroyers and 8 missile boats. Since 1965 the navy has acquired 5 Petya class frigates, 2 tank-landing ships, a submarine depot ship and 4 submarines. The navy has 40,000 men.

TRAINING CENTRES

Armed Forces Medical College, Pune, Maharashtra: Admits 120 students of whom those who receive a stipend have to serve as short service commissioned officers after training. For the others preference for admission is given to those who will volunteer for service.

Defence Institute of Fire Research, New Delhi 110046 : Trains personnel in the Defence organisation in modern methods of fire fighting and prevention.

Defence Institute of Stores Preservation and Packaging, Delhi. Trains defence personnel in different aspects of preservation and packaging.

Defence Institute of Work Study, Mussoorie, Uttar Pradesh : Conducts work study courses, for defence personnel.

Defence Services Staff College, Wellington, Nilgiri Hills, Tamil Nadu: Conducts a 45-week course for 180 officers of the three wings, some civilians and foreign officers in all aspects of staff work.

Indian Military Academy, Dehra Dun, Uttar Pradesh : Cadets from NDA, Khadakvasla and higher age candidates chosen directly are given army training here.

Institute of Armament Technology, Pune, Maharashtra : Trains service personnel and civilian scientific officers in the field of science and technology related to armaments.

Institute of Defence Management, Secunderabad, Andhra Pradesh: Trains service and civilian officers in modern defence management techniques.

Institute of Defence Studies and Analysis, 10, Janapath, New Delhi 110001 : Set up in 1965 it carries out studies, discussions and research on various aspects of national security.

Institute of Nuclear Medicine and Allied Sciences, Probyn Rd., New Delhi 110007: It runs courses on nuclear medicine and technical studies in nuclear, biological and chemical warfare.

Military Schools : There are 5 run by the Defence Ministry, one each at Chail (Punjab); Ajmer (Rajasthan); Belgaum (Mysore); Bangalore (Mysore); Dholpur (Gujarat). The boys appear for the All India Higher Secondary Examination but are not obligated to appear for the National Defence Academy Examination.

National Cadet Corp, West Block, 4 Ramakrishnapuram, New Delhi 110022: Set up to stimulate among youth an interest in the defence of the country.

National Defence Academy, Khadakvasla, Maharashtra : Trains boys who wish to join the armed forces as commissioned officers. Age limit is 16-18 years and qualifications higher secondary or equivalent.

National Defence College, Tees January Marg, New Delhi 110011 : Set up in 1960. This college trains officers of the rank of Brigadiers, and its equivalent ranks.

Sainik Schools : Boys between 9-18 are prepared for the NDA entrance examinations in 17 schools run by the Sainik School Society headed by the Defence Minister.

These schools are located at Nagrola on Tawi near Jammu (Jammu & Kashmir); Kapurthala (Punjab); Kunjpura near Karnal (Haryana); Chittorgarh (Rajasthan); Balachadi (Gujarat); Satara (Maharashtra); Ghorakhal near Naini Tal (Uttar Pradesh); Rewa (Madhya Pradesh); Tilaiya (Bihar); Purulia (West Bengal); Bhubaneshwar (Orissa); Korukonda (Andhra Pradesh); Amaravathinagar (Tamil Nadu); Bijapur (Mysore); Kazakootam (Kerala); Goalpara (Assam); and Imphal (Manipur).

School of Directorate of Psychological Research, M-Block, New Delhi 110001: Gives training in selection techniques and methods.

School of Foreign Languages, 11 L. Block, New Delhi 110011 : Teaches Arabic, Burmese, Chinese, French, German, Japanese, Malay/Indonesian, Persian, Russian, Spanish and Tibetan to Service Personnel, government employees and a few civilians. Courses begin in April and August each year.

Schools of Nursing : Army Hospital, Delhi Cantt.; Central Command Hospital, Lucknow; I.N.H.S. Ashvini, Bombay; Air Force Hospital, Bangalore; Military Hospital, Jullundur; Military Hospital, Secunderabad; Eastern Command Hospital, Calcutta; Western Command Hospital, Chandigarh.

Other training establishments : A number of other specialised training establishments for each wing of the Armed Forces give instructions of special nature. It is not possible to list them all in this Chapter for reasons of space and, because they cater largely to the needs of the personnel already recruited.

DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION, S-Block, New Delhi 110011.

There are 2,000 scientists/Engineers in this organisation besides the other cadres. They are engaged in 1,100 different studies and projects.

A beginning has been made in the manufacture of missiles. Besides, various items of armaments, electronics and engineering equipment, vehicle, aeronautics, naval sciences, general stores, food technology, medical science etc. are indigenously developed.

Indo-Soviet Friendship Treaty : After 2 years of negotiations the treaty was signed on August 9, 1971.

Aggressions against India

1. First invasion on Kashmir — 23rd October, 1947.
2. Chinese infiltration into Tibet began in 1950.
3. By 1956, Chinese Army had moved along the entire boundary from Ladakh to NEFA.
4. In 1957, China had built roads in the Aksai Chin area.
5. India protested against it on October 18, 1958.
6. In March 1959 China over-ran Tibet and Dalai Lama came to India.
7. Chinese massive attack on the eastern border and Ladakh simultaneously — October 20, 1962.

   Unilateral cease fire by China on midnight November 21/22, 1962.
8. (*a*) Pakistan aggression commenced on April 9, 1965, on Kutch border.
   (*b*) Infiltrators started coming in Jammu and Kashmir on 5th August, 1965.
   (*c*) Pakistani troops entered Mendhar area in Jammu and Kashmir on 22nd August, 1965. Repulsed by India. Indian troops crossed cease fire line on 25th August, 1965.
   (*d*) Cease fire on 23rd September 1965.

9. Tashkent Agreement on 10th January, 1966.
10. Four Pakistani sabre jets intruded into Indian territory on 22nd November, 1971, near Calcutta. Three of these were shot down. On December 3, 1971, Pakistani aggression on India began with a 'pre-emptive' air strike on several airports from Srinagar to Agra. President Giri declared a state of emergency in the country, and Pakistan launched a full-scale war on India. Hostilities ceased when Pakistan surrendered in Bangla Desh on December 16, 1971 and Prime Minister Indira Gandhi announced a unilateral cease fire on the western front effective 8 p.m. on December 17, 1971.

Losses and Gains of Indo-Pak war of 1971 : India had captured 1,244 sq. kms. in Jammu and Kashmir, 967 sq. kms. in the Punjab and about 12,341 sq. kms. in Kutch and Sind.

Pakistan had occupied 136 sq. kms. in the Chhamb sector of Jammu and Kashmir; 175 sq. kms. in Punjab and 1·30 sq. kms. in Rajasthan.

Following the Simla Agreement the withdrawals from the occupied territories began on 13th December, 1972.

Loss of Lives : About 1,476 Indian officers and men were killed, 4,201 were wounded and 39 are listed missing.

Pakistan's losses were : 5,400 officers and men killed ; and 4,675 wounded before 4th December, 1971.

An estimated 3,000 officers and men were killed and 4,300 wounded between December 4 and 16.

Simla Pact : The agreement was signed on July 3, 1972, by President Bhutto and Mrs. Indira Gandhi.

TIME DIFFERENCE

The following table gives the time in the various important cities of the world when it is 5·30 p.m. in India. The calculations are based on Greenwich time i.e. when it is 12 noon at Greenwich, England, it is 5·30 p.m. in India.

Accra, Ghana	12 Noon
Adelaide, Australia	9·30 p.m.
Algiers	1·00 p.m.
Amsterdam, Netherlands	1·00 p.m.
Ankara, Turkey	2·00 p.m.
Athens, Greece	2·00 p.m.
Baghdad, Iraq	3·00 p.m.
Baltimore, U.S.A.	7·00 a.m.
Bangkok, Thailand	7·00 p.m.
Belgrade, Yugoslavia	1·00 p.m.
Berlin, Germany	1·00 p.m.
Berne, Switzerland	1·00 p.m.
Boston, U.S.A.	7·00 a.m.
Brisbane, Australia	10·00 p.m.
Brussels, Belgium	1·00 p.m.
Budapest, Hungary	1·00 p.m.
Buenos Aires, Argentina	9·00 a.m.
Cairo, Egypt	2·00 p.m.
Calgary, Canada	5·00 a.m.
Canberra, Australia	10·00 p.m.
Cape Town, South Africa	2·00 p.m.
Chicago, U.S.A.	6·00 a.m.
Colombo, Ceylon	5·30 p.m.
Copenhagen, Denmark	1·00 p.m.
Darwin, Australia	9·30 p.m.
Detroit, U.S.A.	7·00 a.m.
Dublin, Ireland	12 Noon
Freetown, Sierra Leone	12 Noon
Gibraltar	1·00 p.m.
Halifax, Nova Scotia	8·00 a.m.
Hamilton, Bermuda	8·00 a.m.
Havana, Cuba	7·00 a.m.
Helsinki, Finland	2·00 p.m.
Hong Kong	8·00 p.m.
Honolulu, Hawaii	2·00 a.m.
Jerusalem, Israel	2·00 p.m.
Johannesburg, S. Africa	2·00 p.m.
Karachi, Pakistan	5·00 p.m.
Kingston, Jamaica	7·00 a.m.
Kuala Lumpur, Malaya	7·30 p.m.
Lagos, Nigeria	1·00 p.m.
Leningrad, U.S.S.R.	3·00 p.m.
Lima, Peru	7·00 a.m.
Lisbon, Portugal	12 Noon
London	12 Noon
Los Angeles, U.S.A.	4·00 a.m.
Luxembourg	1·00 p.m.
Madrid, Spain	1·00 p.m.
Mandalay, Burma	6·30 p.m.
Melbourne, Australia	10·00 p.m.
Mexico City	6·00 a.m.
Montevideo, Uruguay	9·00 a.m.
Montreal, Canada	7·00 a.m.
Moscow, U.S.S.R.	3·00 p.m.
Nairobi, Kenya	3·00 p.m.
New York	7·00 a.m.
Nicosia, Cyprus	2·00 p.m.
Oslo, Norway	1·00 p.m.
Ottawa, Canada	7·00 a.m.
Panama	7·00 a.m.
Paris	1·00 p.m.
Peking, China	8·00 p.m.
Perth, Australia	8·00 p.m.
Port of Spain, Trinidad	8·00 a.m.
Prague, Czechoslovakia	1·00 p.m.
Quebec, Canada	7·00 a.m.
Quito, Ecuador	7·00 a.m.
Reykjavik, Iceland	11·00 a.m.
Rio de Janeiro	9·00 a.m.
Rome	1·00 p.m.
St. John's, Newfoundland	8·30 a.m.
Salisbury, Southern Rhodesia	2·00 p.m.
San Francisco, U.S.A.	4·00 a.m.
Santiago, Chile	8·00 a.m.
Seoul, Korea	8·30 p.m.
Singapore	7·30 p.m.
Stalingrad, U.S.S.R.	4·00 p.m.
Stockholm, Sweden	1·00 p.m.
Sofia, Bulgaria	2·00 p.m.
Suva, Fiji	12 Midnight
Sydney, Australia	10·00 p.m.
Teheran, Iran	3·30 p.m.
Tirana, Albania	1·00 p.m.
Tokyo, Japan	9·00 p.m.
Toronto, Canada	7·00 a.m.
Vancouver, Canada	4·00 a.m.
Vienna, Austria	1·00 p.m.
Warsaw, Poland	1·00 p.m.
Wellington, New Zealand	12 Midnight
Winnipeg, Canada	6·00 a.m.

METRIC SYSTEM

THE country adopted the metric system of weights and measures on 1st Oct. 1958. On that date the units of mass were introduced in selected areas, and the metric system generally in certain specified industries and Government departments. The law (the Standards of Weights and Measures Act, 1956) passed in December 1956, provides that the system should be adopted in the country within a period of 10 years, from the date of enactment. As a result, after December 1966, the metric system, as recognised by law, started functioning throughout the country.

DOUBLE CONVERSION TABLES FOR WEIGHTS AND MEASURES

The figures in heavy type represent either of the two columns beside them, as the case may be. Examples : 1 centimetre = 0·394 inch and 1 inch = 2·540 centimetres. 1 metre = 1·094 yards and 1 yard = 0·914 metre. 1 kilometre = 0·621 mile and 1 mile = 1·609 kilometres. 1 cubic metre = 1·308 cubic yards and 1 cubic yard = 0·765 cubic metre.

Centimetres		Inches	Metres		Yards
2·540	**1**	0·394	0·914	**1**	1·094
5·080	**2**	0·787	1·829	**2**	2·187
7·620	**3**	1·181	2·743	**3**	3·281
10·160	**4**	1·575	3·658	**4**	4·374
12·700	**5**	1·969	4·572	**5**	5·468
15·240	**6**	2·362	5·486	**6**	6·562
17·780	**7**	2·756	6·401	**7**	7·655
20·320	**8**	3·150	7·315	**8**	8·749
22·860	**9**	3·543	8·230	**9**	9·843
25·400	**10**	3·937	9·144	**10**	10·936
50·800	**20**	7·874	18·288	**20**	21·872
76·200	**30**	11·811	27·432	**30**	32·808
101·600	**40**	15·748	36·576	**40**	43·745
127·000	**50**	19·685	45·720	**50**	54·681
152·400	**60**	23·622	54·863	**60**	65·617
177·800	**70**	27·559	64·007	**70**	76·553
203·200	**80**	31·496	73·151	**80**	87·489
228·600	**90**	35·433	82·295	**90**	98·425
254·000	**100**	39·370	91·349	**100**	109·361

Kilometres		Miles	Cubic Metres		Cubic Yards
1·609	**1**	0·621	0·765	**1**	1·308
3·219	**2**	1·243	1·529	**2**	2·616
4·828	**3**	1·864	2·294	**3**	3·924
6·437	**4**	2·485	3·058	**4**	5·232
8·047	**5**	3·107	3·823	**5**	6·540
9·656	**6**	3·728	4·587	**6**	7·848
11·266	**7**	4·350	5·352	**7**	9·156
12·875	**8**	4·971	6·116	**8**	10·464
14·484	**9**	5·592	6·881	**9**	11·772
16·094	**10**	6·214	7·646	**10**	13·080
32·187	**20**	12·427	15·291	**20**	26·159
48·281	**30**	18·641	22·937	**30**	39·239
64·375	**40**	24·855	30·582	**40**	52·318
80·468	**50**	31·068	38·228	**50**	65·398
96·562	**60**	37·282	45·873	**60**	78·477
122·655	**70**	43·495	53·519	**70**	91·557
128·750	**80**	49·709	61·164	**80**	104·636
144·843	**90**	55·923	68·810	**90**	117·716
160·936	**100**	62·136	76·455	**100**	130·795

DOUBLE CONVERSION TABLES FOR WEIGHTS AND MEASURES—(*Contd.*)

The figures in heavy type represent either of the two columns beside them, as the case may be. Examples : 1 kilogram = 2·205 Av. pounds, and 1 Av. pound = 0·454 kilogram. 1 litre = 1·760 pints and 1 pint = 0·568 litre. 1 gallon = 4·546 litres and 1 litre = 0·220 gallon.

Kilograms		Av. Pounds	Litres		Pints
0·454	**1**	2·205	0·568	**1**	1·760
0·907	**2**	4·409	1·136	**2**	3·520
1·361	**3**	6·614	1·705	**3**	5·279
1·814	**4**	8·818	2·273	**4**	7·039
2·268	**5**	11·023	2·841	**5**	8·799
2·722	**6**	13·228	3·409	**6**	10·559
3·175	**7**	15·432	3·978	**7**	12·319
3·629	**8**	17·637	4·546	**8**	14·078
4·082	**9**	19·842	5·114	**9**	15·838
4·536	**10**	22·046	5·682	**10**	17·598
9·072	**20**	44·092	11·365	**20**	35·196
13·608	**30**	66·139	17·047	**30**	52·794
18·144	**40**	88·185	22·730	**40**	70·392
22·680	**50**	110·231	28·412	**50**	87·990
27·215	**60**	132·277	34·094	**60**	105·588
31·751	**70**	154·323	39·777	**70**	123·186
36·287	**80**	176·370	45·459	**80**	140·784
40·823	**90**	198·416	51·142	**90**	158·382
45·359	**100**	220·462	56·824	**100**	175·980

Litres		Gallons
4·546	**1**	0·220
9·092	**2**	0·440
13·638	**3**	0·660
18·184	**4**	0·880
22·730	**5**	1·100
27·276	**6**	1·320
31·822	**7**	1·540
36·368	**8**	1·760
40·914	**9**	1·980
45·460	**10**	2·200
90·919	**20**	4·399
136·379	**30**	6·599
181·838	**40**	8·799
227·298	**50**	10·999
272·758	**60**	13·198
318·217	**70**	15·398
363·677	**80**	17·598
409·136	**90**	19·797
454·596	**100**	21·997

CONVERSION OF FEET AND INCHES TO MM

Inches to mm

	0″	1/16″	1/8″	3/16″	1/4″	5/16″	3/8″	7/16″	1/2″	9/16″	5/8″	11/16″	3/4″	13/16″	7/8″	15/16″
0″	—	1·6	3·2	4·8	6·4	7·9	9·5	11·1	12·7	14·3	15·9	17·5	19·1	20·6	22·2	23·8
1″	25·4	27·0	28·6	30·2	31·7	33·3	34·9	36·5	38·1	39·7	41·2	42·9	44·4	46·0	47·6	49·2
2″	50·8	52·4	54·0	55·6	57·1	58·7	60·3	61·9	63·5	65·1	66·7	68·3	69·8	71·4	73·0	74·6
3″	76·2	77·8	79·4	81·0	82·5	84·1	85·7	87·3	88·9	90·5	92·1	93·6	95·2	96·8	98·4	100·0
4″	101·6	103·2	104·8	106·4	108·0	109·5	111·1	112·7	114·3	115·9	117·5	119·1	120·7	122·2	123·8	125·4
5″	127·0	128·6	103·2	131·8	133·4	134·9	136·5	138·1	139·7	141·3	142·9	144·5	146·1	147·6	149·2	150·8
6″	152·4	154·0	155·6	157·2	158·8	160·3	161·9	165·5	165·1	166·7	168·3	169·9	171·5	173·0	174·6	176·2
7″	177·8	179·4	181·0	182·6	184·2	185·7	187·3	188·9	190·5	192·1	193·7	195·3	196·9	198·4	200·0	201·6
8″	203·2	204·8	206·4	208·0	209·6	211·1	212·7	214·3	215·9	217·5	219·1	220·7	222·3	223·8	225·4	227·0
9″	228·6	230·2	231·8	233·4	235·0	236·5	238·1	239·7	241·3	242·9	244·5	246·1	247·7	249·2	250·8	252·4
10″	254·0	255·6	257·2	258·8	260·4	261·9	263·5	265·1	266·7	268·3	269·9	271·5	273·1	274·6	276·2	277·8
11″	279·4	281·0	282·6	284·2	285·7	287·3	288·9	290·5	292·1	293·7	295·3	296·9	298·4	300·4	301·6	303·2
12″	304·8															

Feet and inches to mm

	0″	1″	2″	3″	4″	5″	6″	7″	8″	9″	10″	11″
1′	305	330	356	381	406	432	457	483	508	533	559	584
2′	610	635	660	686	711	737	762	787	813	838	864	889
3′	914	940	965	991	1016	1041	1067	1092	1118	1143	1168	1194
4′	1219	1245	1270	1295	1321	1346	1372	1397	1422	1448	1473	1499
5′	1523	1549	1575	1600	1626	1651	1676	1702	1727	1753	1778	1803
6′	1829	1854	1880	1905	1930	1956	1981	2007	2032	2057	2083	2108

Sq. Yards into Sq. Metres and Sq. Metres into Sq. Yards.

Sq. Metres		Sq. Yards
0·836	**1**	1·196
1·672	**2**	2·392
2·508	**3**	3·588
3·345	**4**	4·784
4·181	**5**	5·980
5·017	**6**	7·176
5·853	**7**	8·372
6·689	**8**	9·568
7·525	**9**	10·764
8·361	**10**	11·960
9·197	**11**	13·156
10·034	**12**	14·352
10·870	**13**	15·548
11·706	**14**	16·744
12·542	**15**	17·940
13·378	**16**	19·136
14·214	**17**	20·332
15·050	**18**	21·528
15·886	**19**	22·724
16·723	**20**	23·920
17·559	**21**	25·116
18·395	**22**	26·312
19·231	**23**	27·508
20·067	**24**	28·704
20·903	**25**	29·900
21·739	**26**	31·096
22·575	**27**	32·292
23·412	**28**	33·488
24·248	**29**	34·684
25·084	**30**	35·880
25·920	**31**	37·076
26·756	**32**	38·272
27·592	**33**	39·468
28·428	**34**	40·664
29·264	**35**	41·860
30·101	**36**	43·056
30·937	**37**	44·252
31·773	**38**	45·448
32·609	**39**	46·644
33·445	**40**	47·840
34·281	**41**	49·036
35·117	**42**	50·232
35·953	**43**	51·428
36·790	**44**	52·624
37·626	**45**	53·820
38·462	**46**	55·016
39·298	**47**	56·212
40·134	**48**	57·408
40·970	**49**	58·604
41·806	**50**	59·800
50·168	**60**	71·760
54·348	**65**	77·739
55·184	**66**	78·935
56·020	**67**	80·131
56·857	**68**	81·327
57·693	**69**	82·523
58·529	**70**	83·719
59·365	**71**	84·915
60·201	**72**	86·111
61·037	**73**	87·307
61·873	**74**	88·503
62·710	**75**	89·699
63·546	**76**	90·895
64·382	**77**	92·091
65·218	**78**	93·287
66·054	**79**	94·483
66·890	**80**	95·679
67·726	**81**	96·875
68·562	**82**	98·071
69·399	**83**	99·267
70·235	**84**	100·463
71·071	**85**	101·659
71·907	**86**	102·855
72·743	**87**	104·051
73·579	**88**	105·247
74·415	**89**	106·443
75·251	**90**	107·639
76·083	**91**	108·835
76·924	**92**	110·031
77·760	**93**	111·227
78·596	**94**	112·423
79·432	**95**	113·619
80·268	**96**	114·815
81·104	**97**	116·011
81·940	**98**	117·207
82·777	**99**	118·403
83·613	**100**	119·599

Sq. Inches into Sq. Centimetres and Sq. Centimetres into Sq. Inches.

Sq. Cms.		Sq. Inches
6·452	**1**	0·155
12·903	**2**	0·310
19·355	**3**	0·465
25·806	**4**	0·620
32·258	**5**	0·775
38·710	**6**	0·930
45·161	**7**	1·085
51·613	**8**	1·240
58·064	**9**	1·395
64·516	**10**	1·550
70·968	**11**	1·705
77·419	**12**	1·860
83·871	**13**	2·015
90·322	**14**	2·170

Sq. Inches into Sq. Centimetres and Sq. Centimetres into Sq. Inches.—*(Contd.)*

Sq. Cms.		Sq. Inches	Sq. Cms.		Sq. Inches
96·774	**15**	2·325	258·064	**40**	6·200
103·225	**16**	2·480	264·515	**41**	6·355
109·677	**17**	2·635	270·967	**42**	6·510
116·129	**18**	2·790	277·418	**43**	6·665
122·580	**19**	2·945	283·870	**44**	6·820
129·032	**20**	3·100	290·322	**45**	6·975
135·484	**21**	3·255	296·773	**46**	7·130
141·935	**22**	3·410	303·225	**47**	7·285
148·387	**23**	3·565	309·676	**48**	7·440
154·838	**24**	3·720	316·129	**49**	7·595
161·290	**25**	3·875	322·579	**50**	7·750
167·742	**26**	4·030	329·03	**51**	7·905
174·193	**27**	4·185	335·48	**52**	8·060
180·645	**28**	4·340	341·94	**53**	8·215
187·096	**29**	4·495	348·39	**54**	8·370
193·548	**30**	4·650	354·84	**55**	8·525
200·000	**31**	4·805	361·29	**56**	8·680
206·451	**32**	4·960	367·74	**57**	8·835
212·902	**33**	5·115	374·19	**58**	8·990
219·354	**34**	5·270	380·64	**59**	9·145
225·806	**35**	5·425	387·10	**60**	9·300
232·257	**36**	5·580	419·35	**65**	10·075
238·709	**37**	5·735	451·61	**70**	10·850
245·160	**38**	5·890	483·87	**75**	11·625
251·612	**39**	6·045	645·16	**100**	15·500

Sq. Feet into Sq. Metres and Sq. Metres into Sq. Feet.

Sq. Metres		Sq. Feet	Sq. Metres		Sq. Feet
0·093	**1**	10·76	2·508	**27**	290·63
0·186	**2**	21·53	2·601	**28**	301·39
0·279	**3**	32·29	2·694	**29**	312·15
0·372	**4**	43·06	2·787	**30**	322·92
0·465	**5**	53·82	2·880	**31**	333·68
0·557	**6**	64·58	2·973	**32**	344·45
0·650	**7**	75·35	3·066	**33**	355·21
0·743	**8**	86·11	3·159	**34**	365·97
0·836	**9**	96·88	3·252	**35**	376·74
0·929	**10**	107·64	3·345	**36**	387·50
1·022	**11**	118·40	3·437	**37**	398·27
1·115	**12**	129·17	3·500	**38**	409·03
1·208	**13**	139·93	3·623	**39**	419·79
1·301	**14**	150·70	3·716	**40**	430·56
1·394	**15**	161·46	3·809	**41**	441·32
1·486	**16**	172·22	3·902	**42**	452·08
1·579	**17**	182·99	3·995	**43**	462·85
1·672	**18**	193·75	4·088	**44**	473·61
1·765	**19**	204·51	4·181	**45**	484·38
1·858	**20**	215·28	4·274	**46**	495·14
1·951	**21**	226·04	4·366	**47**	505·90
2·044	**22**	236·81	4·459	**48**	516·67
2·137	**23**	247·57	4·552	**49**	527·43
2·230	**24**	258·33	4·645	**50**	538·20
2·323	**25**	269·10	6·968	**75**	807·29
2·415	**26**	279·86	9·290	**100**	1076·39

Sq. Miles into Sq. Kilometres and Sq. Kilometres into Sq. Miles.

Sq. Kms.		Sq. Miles	Sq. Kms.		Sq. Miles
2·59	**1**	0·386	132·09	**51**	19·691
5·18	**2**	0·772	134·68	**52**	20·077
7·77	**3**	1·158	137·27	**53**	20·463
10·36	**4**	1·544	139·86	**54**	20·850
12·95	**5**	1·931	142·45	**55**	21·236
15·54	**6**	2·317	145·04	**56**	21·622
18·13	**7**	2·703	147·63	**57**	22·008
20·72	**8**	3·089	150·22	**58**	22·394
23·31	**9**	3·475	152·81	**59**	22·780
25·90	**10**	3·861	155·40	**60**	23·166
28·49	**11**	4·247	157·99	**61**	23·552
31·08	**12**	4·633	160·58	**62**	23·938
33·67	**13**	5·019	163·17	**63**	24·324
36·26	**14**	5·405	165·76	**64**	24·710
38·85	**15**	5·792	168·35	**65**	25·097
41·44	**16**	6·178	170·94	**66**	25·483
44·03	**17**	6·564	173·53	**67**	25·869
46·62	**18**	6·950	176·12	**68**	26·255
49·21	**19**	7·336	178·71	**69**	26·641
51·80	**20**	7·722	181·30	**70**	27·027
54·39	**21**	8·108	183·89	**71**	27·413
56·98	**22**	8·494	186·48	**72**	27·799
59·57	**23**	8·880	189·07	**73**	28·186
62·16	**24**	9·267	191·66	**74**	28·572
64·75	**25**	9·653	194·25	**75**	28·958
67·34	**26**	10·039	196·84	**76**	29·344
69·93	**27**	10·425	199·43	**77**	29·730
72·52	**28**	10·811	202·02	**78**	30·116
75·11	**29**	11·197	204·61	**79**	30·502
77·70	**30**	11·583	207·20	**80**	30·888
80·29	**31**	11·969	209·79	**81**	31·274
82·88	**32**	12·355	212·38	**82**	31·660
85·47	**33**	12·741	214·97	**83**	32·047
88·06	**34**	13·128	217·56	**84**	32·433
90·65	**35**	13·514	220·15	**85**	32·819
93·24	**36**	13·900	222·74	**86**	33·205
95·83	**37**	14·286	225·33	**87**	33·591
98·42	**38**	14·672	227·92	**88**	33·977
101·01	**39**	15·058	230·51	**89**	34·363
103·60	**40**	15·444	233·10	**90**	34·749
106·19	**41**	15·830	235·69	**91**	35·135
108·78	**42**	16·216	238·28	**92**	35·521
111·37	**43**	16·602	240·87	**93**	35·908
113·96	**44**	16·989	243·46	**94**	36·294
116·55	**45**	17·375	244·05	**95**	36·680
119·14	**46**	17·761	248·64	**96**	37·066
121·73	**47**	18·147	251·23	**97**	37·452
124·32	**48**	18·533	253·82	**98**	37·838
126·91	**49**	18·919	256·41	**99**	38·224
129·50	**50**	19·305	259·00	**100**	38·610

LABOUR

EMPLOYMENT

As compared to 1961, the total number of workers employed in most of the States in 1971 has registered a fall. Andhra, Bihar, Madhya Pradesh, Maharashtra and Uttar Pradesh have found fewer jobs for workers while Kerala, Punjab and West Bengal have recorded a rise in employment. The following table gives the break-down of employment in each State.

Employment **In Million**

	1961	1971
Andhra	18·66	18·00
Assam	4·73	4·24
Bihar	19·23	17·49
Gujarat	8·47	8·39
Haryana	2·88	2·65
Himachal	1·51	1·28
Jammu & Kashmir	1·52	1·37
Kerala	5·63	6·22
Madhya Pradesh	16·93	15·29
Maharashtra	18·95	18·39
Mysore	10·73	10·18
Orissa	7·66	6·85
Punjab	3·47	3·91
Rajasthan	9·58	8·05
Tamil Nadu	15·35	14·74
Uttar Pradesh	28·85	27·33
West Bengal	11·58	12·37
Others	1·42	1·50
Union Territories	1·40	2·09

At the end of March 1972, the number of employed in the Public Sector and Private Sector totalled 17·939 million. Of these, the Public Sector accounted for 11·889 million and the Private Sector, the balance of 6·750 million. The breakdown of employment year-wise in these two sectors is given in Table II and that of employment industrywise is given in Table III.

TABLE II EMPLOYMENT IN PUBLIC AND PRIVATE SECTORS

(Numbers in million)

As at the end of March	PUBLIC SECTOR					Private Sector	Grand Total
	Central Govt.	State Govt.	Quasi Govt.	Local bodies	Total		
1962	2·186	3·087	0·879	1·365	7·417	5·160	12·577
1963	2·329	3·198	0·995	1·431	7·953	5·450	13·403
1964	2·434	3·433	1·097	1·490	8·454	5·780	14·234
1965	2·568	3·585	1·206	1·598	8·957	6·040	14·997
1966	2·636	3·723	1·318	1·701	9·378	6·810	16·188
1967	2·688	3·767	1·402	1·778	9·634	6·680	16·314
1968	2·715	3·803	1·484	1·800	9·802	6·520	16·322
1969	2·713	3·901	1·655	1·825	10·095	6·530	16·625
1970	2·725	3·997	1·794	1·858	10·374	6·700	17·074
1971	2·771	4·152	1·929	1·878	10·731	6·760	17·491
1972	2·838	4·265	2·163	1·923	11·189	6·750	17·939

TABLE III EMPLOYMENT INDUSTRYWISE

(No. in million)

Year	Plantation, forestry etc.		Mining and quarrying		Manufacturing		Construction	
	Govt.	Private	Govt.	Private	Public	Private	Public	Private
1962	0·174	0·740	0·145	0·480	0·421	3·050	0·641	0·180
1963	0·182	0·740	0·160	0·520	0·509	3·270	0·662	0·180
1964	0·203	0·900	0·157	0·500	0·581	3·420	0·715	0·170
1965	0·209	0·890	0·161	0·490	0·635	3·610	0·740	0·190
1966	0·226	0·900	0·160	0·510	0·670	3·860	0·766	0·250
1967	0·232	0·870	0·176	0·480	0·695	3·750	0·763	0·230
1968	0·246	0·850	0·174	0·430	0·731	3·710	0·756	0·150
1969	0·261	0·810	0·174	0·420	0·757	3·780	0·788	0·150
1970	0·264	0·820	0·177	0·430	0·782	3·900	0·797	0·150
1971	0·276	0·800	0·182	0·410	0·806	3·970	0·880	0·140
1972	0·283	0·810	0·255	0·350	0·870	3·970	0·915	0·170

TABLE III EMPLOYMENT INDUSTRYWISE — *Contd.*

(No. in million)

Year		Electricity		Trade & Commerce		Transport & Communications		Service		TOTAL	
		Public	Private	Public	Private	Public	Private	Public	Private	Public	Private
1962	..	0·234	0·040	0·109	0·190	1·797	0·120	3·896	0·360	7·417	5·160
1963	..	0·244	0·040	0·120	0·190	1·886	0·140	4·190	0·370	7·953	5·450
1964	..	0·264	0·040	0·133	0·200	1·937	0·110	4·464	0·430	8·454	5·780
1965	..	0·291	0·040	0·143	0·220	2·044	0·110	4·734	0·480	8·957	6·040
1966	..	0·303	0·040	0·155	0·330	2·094	0·120	5·004	0·800	9·378	6·810
1967	..	0·337	0·040	0·166	0·350	2·115	0·120	5·150	0·850	9·634	6·680
1968	..	0·346	0·050	0·177	0·350	2·137	0·100	5·236	0·880	9·802	6·520
1969	..	0·369	0·040	0·264	0·290	2·160	0·110	5·321	0·920	10·095	6·530
1970	..	0·402	0·040	0·288	0·290	2·188	0·100	5·475	0·960	10·374	6·700
1971	..	0·434	0·050	0·328	0·300	2·216	0·100	5·607	1·000	10·731	6·760
1972	..	0·458	0·050	0·374	0·300	2·249	0·080	5·785	1·030	11·189	6·750

Employment in the organised sector increased slightly faster (2·8%) during 1971-72 than in 1970-71 (2·5%). At the end of June 1972, the number of employed persons in the organised sector increased to 18·16 million giving a percentage rise of 0·4 over the figure of March 1972. The pace of increase in the level of employment in the public sector has generally been higher than that in the private sector since the beginning of the Fourth Plan.

The total working population was 139·5 million in 1951, 188·4 million in 1961, 212 million in 1970 and is expected to reach 280 million in 1980.

UNEMPLOYMENT

The spectre of unemployment continues to loom large on our horizon. It has in fact become a massive and burgeoning problem.

On a conservative estimate there are about 30 million unemployed in India today. Annually, there is an addition of about 7 million job seekers. It is estimated that total unemployment is likely to be around 65 million by the end of the Fifth Plan.

Employment by end 1972 had recorded a growth rate of only 0·2% against a 3·5% rise in the number of people registered with employment exchanges.

Judging by the registration in various employment exchanges in the country, unemployment, including educated unemployment, is mounting. The rate of growth of job-seekers in the labour market is faster than the employment opportunities provided in development schemes.

As against a rise of 18·8% during 1970, the number of job seekers increased by 25·3% in 1971 and 35·2% in 1972.

The figures tabulated by the Labour Ministry show that the increase in absolute numbers was from 4·1 million at the end of 1970 to 5·1 million at the end of 1971 and further to about 6·9 million when the year 1972 closed.

EDUCATED UNEMPLOYED

The increase is even more alarming in the case of educated job-seekers. From 1·8 million in 1970, they rose to 2·3 million in 1971 and about 3·3 million in 1972, signifying a percentage rise of 26 and 43 respectively.

There were about 23,000 engineering graduates and about 60,000 diploma holders in engineering in search of jobs. More than half among the educated unemployed (53·3%) were matriculates and about 18% were graduates and post-graduates.

The number of job-seekers on live registers of employment exchanges at the end of 1972 was 6,895,089. West Bengal headed the list with 1,381,000, Bihar came next with 913,000 and Maharashtra third with 598,000.

The figure of 6·9 million unemployed as calculated from the live registers in the employment exchanges, does not give a correct picture of the actual number of total unemployed in the country. According to a rough survey, about 10% of the unemployed did not register at all with the employment exchanges.

SOME IMPORTANT JOB SCHEMES

To counter this menacing problem of unemployment, the Central Government had initiated various development schemes to generate employment.

The Bhagwati Committee has suggested in its interim report (February '72) that a total of Rs. 7,400 million should be found over the next two years to create 4 million new jobs mainly to deal with the problem of rural employment.

In 1971-72 a provision of Rs. 500 million was made outside the Plan for execution of essentially labour-intensive projects in all the districts of the country. An additional provision of Rs. 250 million was also made for educated unemployed youth.

In the budget of 1972-73, there is a lumpsum provision of Rs. 1,250 million to cover requirements of rural water supply, rural home sites, slum clearance and improvements, and primary education to the schemes for educated unemployed.

The Crash Scheme for Rural Employment was introduced during the financial year 1971-72. The scheme with a total provision of Rs. 500 million was meant to cover all the districts in the country, aiming to provide unskilled work for about 1,000 persons in every district. The projects under the scheme were to include labour-intensive activities like rural communication, minor irrigation, afforestation, soil conservation etc. This scheme has been allocated another Rs. 500 million for 1972-73.

In 1971-72 the scheme resulted in the generation of 80·822 million mandays of employment, thus providing employment to roughly 320,000 persons during the year for varying periods, or to an average of 957 persons per district, against 1,000 persons envisaged in the scheme for 348 districts for which proposals were approved.

During the year 1972-73, the scheme is reported to have generated an employment of 60 million mandays in the villages till end of October 1972, giving job opportunities to about 300,000 people for 250 days in a year.

Educated Unemployed — Schemes for

Schemes for educated unemployed initiated in 1971-72 and continued through 1972-73 were expected to create additional employment opportunities for 65,000 people

In addition, another Rs. 1,000 million scheme to generate self-employment opportunities for 500,000 more people had been approved by the Planning Commission and would be implemented between April 1973 and March 1974.

The other special employment programmes launched in the States and Union Territories during 1972-73 at a total cost of Rs. 270 million were expected to generate employment for about 3·7 million people, inclusive of 70,000 educated people, of whom 11,000 would be engineers. The scheme is expected to continue during 1973-74 also.

LABOUR UNREST

Strikes and lockouts in 1971 cost the nation heavily resulting in a loss of production of Rs. 905·4 million. There was however some improvement in industrial relations in 1972. The loss in terms of industrial production is estimated at Rs. 606·5 million. (Provisional official estimate).

But the actual net loss is likely to be more as the loss of Rs. 606·5 million is related to only 1,252 cases of lockouts and strikes as against a total number of 2,614 such incidents in 1972.

The lockouts and strikes in 1972 were mainly due to disputes over issues relating to wages and allowances, bonus, retrenchment and hours of work. The maximum number of 662 industrial disputes were reported from Maharashtra, followed by West Bengal with 339, Tamil Nadu 334, Bihar 236, Uttar Pradesh 192, Kerala 183, Gujarat 120 and Madhya Pradesh 102.

The number of strikes and lockouts elsewhere : Mysore 94, Andhra 89, Rajasthan 69, Haryana 36. Goa, Daman and Diu and Orissa 31 each. Delhi 28, Assam 20, Punjab 15, Tripura 12, Pondicherry 12, Jammu & Kashmir 6, Himachal Pradesh, Andaman and Nocobar Islands 1 each.

Mandays lost on account of strikes and lockouts during 1971 were 13·65 million (Provisional) of which 2·03 million (Prov.) were in the Central Sphere undertakings and 11·62 million (prov.) in the State Sphere undertakings.

During the previous five years, the figures were : 1966 — 13·85 million, 1967 — 17·14 million, 1968 — 17·28 million, 1969 — 19·05 million and 1970 — 20·56 million (against reported provisional figure of 17·17 million).

The following table gives the labour situation in 1971 at a glance :

LABOUR SITUATION IN 1971 AT A GLANCE

State/Territory	No. of industrial disputes referred to I.R.M.	No. of failure reports received	Adjudication, Arbitration & Award				Strikes & Lock-outs		
			Number of disputes referred for		No. of disputes for which awards are available		No. of strikes/ Lock-outs	No. of workmen involved	No. of Mandays lost
			Adjudication	Arbitration	In favour of workers	Against workers			
1	2	3	4	5	6	7	8	9	10
Centre	6,075	920	413	49	106	82	300	189,588	1,126,284
Andhra Pradesh ..	..	..	..	..	..	..	44	14,615	124,650
Assam	..	..	..	..	..	..	15	5,820	10,978
Bihar	..	..	..	..	..	..	91	2,877	49,772
Gujarat	2,803	856	283	6	34	15	116	2,611	129,354
Haryana	1,907	454	322	16	111	141	49	11,753	885,433
Himachal Pradesh	..	..	..	..	..	..	..	..	..
Jammu & Kashmir	..	..	..	..	..	..	1	13	234
Kerala	5,098	222	194	15	53	4	170	184,825	2,013,202
Madhya Pradesh	326	122	44	4	N.A.	N.A.	45	15,219	50,126
Maharashtra ..	6,351	1,355	1,047	103	897	406	577	448,389	1,665,983
Manipur	..	..	..	..	..	..	..	..	..
Meghalaya	..	..	..	..	..	..	..	..	..
Mysore	925	386	169	1	64	34	64	28,683	652,910
Nagaland	..	..	..	..	..	..	..	..	..
Orissa	..	..	..	..	..	..	..	..	..
Punjab (P) ..	3,094	1,186	1,103	18	334	260	14	32,274	158,202
Rajasthan	..	..	..	..	..	..	45	15,082	72,516
Tamil Nadu ..	..	..	..	..	..	..	166	55,669	984,749
Uttar Pradesh ..	5,407	2,673	2,010	56	881	462	152	50,863	518,651
Tripura	188	1	1	1	1	1	3	627	38,218
West Bengal ..	10,622‡	627*	467	Nil	253†	42	219	148,097	4,930,412
Andaman & Nicobar Islands	39	2	2	Nil	2	Nil	4	1,179	3,429
Chandigarh.. ..	10	21	6	..	1	1	1	45	549
Dadra & Nagar Haveli	..	..	..	..	..	..	..	..	..
Delhi	2,139	774	395	4	N.A.	N.A.	61	25,083	134,646
Goa, Daman & Diu	260	6	6	1	1	..	..	..	..
Lacadive, Minicoy & Amindivi Islands	..	..	..	..	..	..	..	..	..
Pondicherry ..	77	23	22	..	12	6	..	..	..
TOTAL	45,251	9,628	6,484	274	2,750	1,454	2,137	1,226,812	12,750,244

P — Provisional N.A. — Not available.

NOTE. — Figures in cols. 8, 9 and 10 are based on returns received in the Labour Bureau, Simla and are provisional.

‡ This includes 3,658 cases brought forward from 1970. * This includes 87 cases " Not recommended " for adjudication.

† On the basis of analysis of awards in Calcutta Gazette during 1971 upto the month of October 1971.

EMPLOYMENT AND TRAINING

National Employment Service : This service was initially set up with the limited objective of registration and placement of employment seekers. It has been extended to provide necessary base for manpower planning and development of human resources.

Employment Exchanges : The number of employment exchanges functioning at the end of June 1972 were 444 which includes 15 professional and executive employment offices and 11 special employment exchanges for physically handicapped. In addition 51 University Employment Information and Guidance Bureau were also functioning.

Employment of Handicapped : Special Employment offices for the physically handicapped are at present functioning at Bombay, Delhi, Madras, Hyderabad, Calcutta, Kanpur, Bangalore, Ahmedabad, Chandigarh, Trivandrum and Jabalpur. In addition, four vocational rehabilitation centres are at present functioning, one each at Bombay, Hyderabad, Delhi and Jabalpur for vocational evaluation and imparting adjustment training to physically handicapped persons.

Employees' Provident Fund and Family Pension Fund Act, 1952.

The Employees' Provident Funds and Family Pension Fund Act is applicable to an establishment which has 20 or more employees on its muster roll and has completed five years since inception, or an establishment which has 50 or more employees and completed 3 years since inception. The minimum percentage of contribution payable both by the employers and employees is 6¼ per cent of 'Pay'. The rate is 8 per cent in respect of establishments employing 50 or more persons and engaged in any of the industries/classes of establishment specified in this behalf.

Those employees of covered establishments who have put in one year's continuous service or 240 days actual work during a period of 12 months or less or have been declared permanent in any such factory or other establishment are eligible to become members of the Employees' Provident Fund.

Certain Statistics on the working of the Employees' Provident Fund and Family Pension Fund Act.

No. of industries covered : 127 (Upto 31-3-1972).

No. of covered establishments (both exempted and un-exempted) 52,774 (as on 31-3-1972).

No. of subscribers : 6,250 million (as on 31-3-1972).

Amount of Provident Fund contribution as on 31-3-1972 (both exempted and unexempted establishments) ;

(*i*) Provident Fund Contributions collected (including interest and other receipts) : Rs. 23,145·3 million.

(*ii*) Amount paid as loans, advances, in final settlement of claims, etc. : Rs. 8,652·7 million.

(*iii*) Amount invested in Government and other securities : Rs. 14,684·9 million.

Total contribution (including interest and other receipts) during 1971-72 : Rs. 3,914·9 million as against Rs. 3,296·7 million in 1970-71.

No. of unexempted establishments covered under the Act upto the end of March, 1972 : 50,560.

No. of subscribers in such establishments : over 3·95 million ;

Total accumulations of Provident Fund in such establishments : Rs. 9,798·7 million ; (including interest on investment and penal damages).

Amount of Provident Fund invested in such establishments : Rs. 6,934·9 million.

Rate of interest at present on members' contributions : 6·00 per cent per annum (1972-73).

The pattern of investment for 1972-73 is as follows :—

A. From 1-4-72 to 30-9-1972.

(1)	For Central Govt. Securities	45%
(2)	State Govt./State or Central Govt. guaranteed securities	25%
(3)	Post office Time Deposits and Small Savings	30%

B. From 1-10-72 to 31-3-1972

(1)	In Central Govt. Securities	Nil
(2)	State Govt./State or Central Govt. Guaranteed Securities	25%
(3)	Post Office Time Deposits	75%

The interest received on investment (including penal damages) till 31-3-1972 amounted to Rs. 1,604·3 million.

The number of establishments covered on a voluntary basis rose from 1782 to 2,113 upto 31-3-1972.

SCHEME OF FAMILY PENSION-CUM-LIFE ASSURANCE FOR INDUSTRIAL WORKERS

This Scheme is formulated for the following categories :

(1) workers covered by the Employees' Provident Funds Act, 1952 and who were contributing to the Fund at the rate of 8 per cent of their pay.

(2) workers paying provident fund contribution at the rate of 6¼ per cent under the Employees' Provident Funds Act, 1952 ; and

(3) coal miners who are already paying provident fund contributions at the rate of 8 per cent of pay under the Coal Mines Provident Fund and Bonus Schemes Act, 1948.

The Scheme envisages the creation of Family Pension-cum-Life Assurance Funds under the two Acts by diverting a portion of the present employers' and workers' contributions to the Provident Funds, to which will be added a suitable contribution by the Central Government. From out of the Funds so created, a family pension at a prescribed scale is payable to the survivors of industrial workers, who die while in service before reaching the age of 60 years. Besides family pension, a compulsory life insurance benefit upto Rs. 1,000 will also be payable to the survivors of the workers in the event of death in service. In the case of retirement, a lumpsum payment upto a maximum of Rs. 4,000 will be made to the worker depending on the length of service.

An Ordinance giving effect to these proposals — The Labour Provident Funds Laws (Amendment) Ordinance, 1971 — was promulgated by the President on February 13, 1971. Two schemes of family pension, one for workers in Coal Mines and one for workers covered by the Employees' Provident Funds Act, 1952 were prepared and brought into force w.e.f. 1st March 1971. The Ordinance has since been replaced by an Act of Parliament.

Safety and Working Conditions : Apart from the statutory obligations under the factories Act with regard to maintenance of safety, other measures to encourage safety in factories continued to be adopted.

The National Safety Council for Industries other than Mines, set up at the Central Labour Institute, Bombay, had 658 corporate members and 133 individual members by end December 1971. The Council organises safety courses and conducts seminars and distributes safety posters and literature.

The National Council for Safety in Mines set up in July 1963 continued to promote safety education and propaganda in all major coal and mica mines. Pit Safety Committees were organised and at the end of 1971, there were 708 such committees functioning in coal and non-coal mines.

Factory Advice Service: The Directorate General of Factory Advice Service and Labour Institutes, Bombay, acts as a co-ordinating agency for bringing about a measure of uniformity in regard to administration of the Factories Act in the States, looks after the administration of the Indian Dock Labourers' Act, 1934 and the regulations made thereunder and renders, through the Central Labour Institute, Bombay and the Regional Labour Institutes at Calcutta, Madras and Kanpur, service to industry by carrying out training and research into the various aspects of industrial development as related to the human factor.

EDUCATION AND TRAINING

The scheme of workers' education continued to make steady progress. The Central Board of Workers' Education had established 30 Regional centres throughout the country to serve important industrial centres. Sub-regional centres have also been opened wherever found necessary. During 1971, 2,845 worker-teachers and 168,943 workers were trained. Grant-in-Aid amounting to Rs. 168,000 were given to 132 unions/institutions to organise their own workers' education programme.

By the end of December 1971, an expenditure of Rs. 52,490 million had been incurred on the scheme since its inception in 1958. The revised estimates for 1971-72 amount to Rs. 7·181 million and the budget estimates for 1972-73 to Rs. 7·630 million.

The Indian Institute of Workers' Education was set up in Bombay in 1970 to serve as a demonstration and information centre. It conducted refresher programmes for education officers and organised training programmes in various docks and ports.

The Indian Institute of Labour Studies, New Delhi: It imparts specialised in-service training to officers of the central and state governments, of public sector undertakings and those nominated under the Colombo Plan.

By January 1972, 455 officers including 70 from overseas countries had been trained in 22 regular courses. The Institute also undertook research work on "trends, techniques and machinery for settlement of industrial disputes" in various States.

TRAINING PROGRAMMES

Productivity Centre of the Central Labour Institute: The objective of the Centre is to create an attitude receptive to the idea of productivity and to further the application of modern industrial engineering techniques for raising productivity and improving conditions of work.

Staff Training Centre of the Central Labour Institute: The main objectives of the Staff Training Centre are to undertake training of officers and to render advice and service to business and industrial organisations with a view to develop effective supervision.

Industrial Psychology Section of the Central Labour Institute: The Industrial Psychology Section aims at discovering the best possible human conditions in occupational work, the selection of the most suitable worker, the most effective means of avoiding fatigue and boredom, the causes and remedies of irritation, discontentment and unrest or the best methods of work and training.

The National Labour Institute: The Government has been examining the need for the establishment of a properly equipped National Centre for Training and Research in labour matters. The question was considered by the National Commission on Labour and in pursuance of its recommendations, proposals to establish such an Institute were placed before the 29th session of the Standing Labour Committee held in July 1970, which were generally approved by the Committee. The main function of the Institute will be to undertake training, research and consultancy services in labour matters. The Institute will be set up as an autonomous body registered under the Societies Registration Act, 1860.

Vocational Guidance and Employment Counselling: Employment Exchanges and University Employment Information and Guidance Bureaux are the main agencies of the National Employment Service through which vocational guidance and employment counselling service are rendered. At present there are 208 Employment Exchanges and 49 University Employment Information Guidance Bureaux where special vocational guidance and employment counselling facilities are made available to employment seekers, students and alumni.

Vocational Rehabilitation Centres for the Physically Handicapped Persons: The two Vocational Rehabilitation Centres at Bombay and Hyderabad set up in 1968 with the help of Social and Rehabilitation Services of the Department of Health, Education, Welfare of the Government of U.S.A., for Vocational Evaluation and for imparting adjustment training to physically handicapped persons continued to render assistance to such persons.

The following services are offered by the two Centres:

(*i*) The Vocational Rehabilitation Centres admit physically handicapped persons (Blind, Deaf and Dumb and Orthopaedics) to evaluate them, assess medically their residual vocational capacity and measure them psychologically.

(*ii*) The disabled persons are examined by a panel of medical specialists to give opinion on their residual work capacities, remedial or curative measures.

(*iii*) The handicapped persons are interviewed for knowing their personal, social, family, educational, economic and vocational background. They are also studied in their family and community setting which often cause adjustment problems.

(*iv*) The handicapped persons are put through various psychological tests to assess the client's intelligence, aptitude, manual dexterity, personality and adjustment problems.

(*v*) The capacity of handicapped clients are also tested in workshop settings in units such as carpentry, radio, commercial, clerical, drawing, painting, etc.

(*vi*) The disabled clients at the Vocational Rehabilitation Centres are given the necessary counselling and workshop training to adjust themselves in their work habits, motivate them for taking decision in right perspective both in personal and vocational areas.

(*vii*) The parents of handicapped clients are interviewed to fill the gaps in information relating to clients. The assessment made and the vocational plan chalked out are also discussed with the parents to achieve the full rehabilitation of the person.

(*viii*) The cases of handicapped clients are discussed in detail in a case conference where decisions regarding vocational plan are taken.

(*ix*) Efforts are made to place the physically handicapped clients, evaluated at the Centre, in suitable jobs with the help of Special Employment Exchange. In case of clients needing training, arrangements are made to impart the required training in Industrial Training Institutes/Industry.

(*x*) After a handicapped person is placed in job/training the employer is rendered follow up service in :

(*a*) Client adjustment

(*b*) Job adjustment

(*c*) Client counselling.

The National Commission on Labour has recommended the setting up of Rehabilitation Homes for Physically Handicapped persons. It is proposed to set up two such Centres during 1971-72 and two in 1972-73.

Institute for Research and Training : The Central Institute for Research and Training in Employment Service was established in October, 1964 in New Delhi under the Directorate General of Employment and Training. It has three main functions namely Research, Staff Training and Career Study.

Four Regional Directorates of Apprenticeship had been set up earlier in 1968, at Kanpur, Calcutta, Bombay and Madras, for the implementation in the Central sphere, of the Act. Each State Govt. has its own organisation and State Apprenticeship Adviser for implementation of the Act in the State Sector.

Training-cum-Orientation Course : Under the scheme, special instructions in business management are given to the selected trainees in the I.T.I.s, under the Craftsmen Training Scheme. In view of the transfer of the Craftsmen Training Scheme to the State Sector with effect from 1st April, 1969, all the State Governments have been requested to introduce this course in the Industrial Training Institutes on a pilot basis.

New Institutes :— (1) Advanced Training Institute, Madras : Set up with assistance from the United Nations Development Programme (Special Fund) for the training of highly skilled (Master Craftsmen) with a seating capacity of 162. (2) Staff Training and Research Institute, Calcutta : Set up with collaboration of the Federal Republic of Germany, for the purpose of (*a*) providing training to Officers and staff and (*b*) Conducting research in training techniques. (3) Foremen Training Institute, Bangalore : Set up with collaboration of the Federal Republic of Germany with a seating capacity of 200 to start with, for training of Foremen.

Coaching-cum-Guidance Centres for Scheduled Castes and Scheduled Tribes: A scheme for establishing coaching-cum-guidance Centres for Scheduled Caste/Scheduled Tribe applicants, on pilot basis has been launched. Under this scheme 4 centres one each at Madras, Delhi, Jabalpur and Kanpur have been established. The centres provide confidence building training to Scheduled Caste/Scheduled Tribe applicants registered for Class III posts and disseminate occupational information among such applicants. The centres also keep a watch over the filling up of vacancies reserved for Scheduled Caste/Scheduled Tribe applicants.

EMPLOYEES' STATE INSURANCE CORPORATION

Headquarters Office :—ESIC Building, Kotla Road, New Delhi.

Regional Offices :—See under 'Govt. of India Personnel'.

The Employees' State Insurance Act applies to all non-seasonal factories using power wherein 20 or more persons work for wages. All employees employed on a remuneration not exceeding Rs. 500 per month, are covered by this Act.

The scheme at present provides for medical care for the insured persons and in most of the areas for their families also. It also provides for sickness, maternity, disablement, dependents and funeral benefit in cash.

During 1971-72, the scheme was extended to cover a total of 24,900 employees in 11 centres. Medical care was also extended to about 18,350 more insured families.

By end of December 1971, a total of 3·861 milllion insured employees were covered under the scheme in 333 centres, while medical benefits were given to 16·370 million. The total amount so far sanctioned for construction of Hospitals, Annexes, Dispensaries and staff quarters etc. was of the order of Rs. 410 million.

At present there are 44 full-fledged ESI Hospitals with 6,666 beds, 20 ESI Annexes with 464 beds and 137 State Insurance Dispensaries. Besides, another 15 ESI Hospitals with 2,463 beds, 3 Annexes with 42 beds and 18 State Insurance Dispensaries were under different stages of construction.

BUDGET 1971-72

Receipts Rs. 507,777,000. Payments Rs. 499,838,000 Surplus Rs. 7,939,000.

Budget Estimates for 1972-73 under Revenue Receipts and Expenditure on Revenue Accounts were Rs. 566,259,000 and Rs. 561,632,000 respectively.

Amounts of Benefits (in Rs.) disbursed under certain heads in 1971-72 :—

Region	Sickness Benefits including extended Sickness Benefits	Maternity Benefits	T.D.B. (Actual Payments)	P. & T. Disablement Benefits (Capitalised Value)	Dependants Benefits (Capitalised Value)	Funeral Benefits
1	2	3	4	5	6	7
Hqrs. Office	—	—	—	(—) 7,452,865	(—) 2,470,494	—
Andhra Pradesh	3,830,281	257,794	447,518	1,036,000	56,000	33,392
Assam	424,225	4,361	54,622	186,000	19,000	2,100
Bihar	1,969,262	53,754	189,568	174,000	10,000	16,100
Delhi	2,471,416	50,484	480,941	1,743,000	165,000	12,998
Gujarat	7,885,144	312,037	2,007,857	3,766,000	1,210,000	81,273
Haryana	1,225,715	64,915	323,816	757,000	273,000	9,700

Region	Sickness Benefits including extended Sickness Benefits	Maternity Benefits	T.D.B. (Actual Payments)	P. & T. Disablement Benefits Capitalised Value	Dependants Benefits (Capitalised Value)	Funeral Benefits
1	2	3	4	5	6	7
Kerala	5,042,151	1,689,529	551,886	842,000	232,000	34,100
Madhya Pradesh	5,197,869	103,654	1,070,814	666,000	198,000	38,388
Maharashtra	39,733,426	1,587,789	3,848,798	10,054,000	2,468,000	158,304
Mysore	6,629,082	737,032	633,485	876,000	336,000	40,500
Orissa	771,708	43,786	186,976	212,000	85,000	7,500
Punjab	670,053	26,102	223,998	1,230,000	285,000	9,268
Rajasthan	1,316,511	97,582	293,996	462,000	35,000	15,800
Tamil Nadu	18,382,384	761,690	1,843,368	1,776,000	301,000	88,296
Uttar Pradesh	6,080,327	34,824	1,346,533	1,154,000	435,000	59,658
West Bengal	45,789,242	629,166	16,722,443	3,956,000	561,000	193,605
Total ..	147,418,796	6,454,499	30,226,619	21,437,135	4,198,506	800,982

TRADE UNIONS

Indian National Trade Union Congress : 17, Janpath, New Delhi-110001.

Established : 3-5-1947.

Regional Offices : 27, Military Square Lane, Fort, Bombay-400001 ; 177/B, Acharya Jagdish Bose Road, Calcutta-700014 ; 2/44, Royapettah High Road, Madras-600014.

Total Membership : 2,034,033.

Number of Affiliated Unions : 2,139.

Present Office-bearers :

President : B. C. Bhagwati, M.P.

General Secretary : G. Ramanujam.

Treasurer : C. M. Stephan, M.P.

Official Publication : 'Indian Worker', Weekly.

Editor : H. D. Mukerji.

All-India Trade Union Congress : 24, Canning Lane, New Delhi-110001.

Established : 31-10-1920.

Regional Offices : Shivshakti, Dr. A. Besant Rd., Bombay-400018 ; 144 Lenin Sarani, Calcutta-700013 .

Total Membership : 1,984,303.

Number of Affiliated Unions : 2,390.

Present Office-bearers :

President : S. S. Mirajkar.

Vice-Presidents : Dr. Ranen Sen ; P. Balachandra Menon ; Parvathi Krishnan ; S. S. Yusuf ; Dr. Raj Bahadur Gour and Kedar Das.

General Secretary : S. A. Dange.

Secretaries : K. G. Srivastava ; Satish Loomba ; Indrajit Gupta and N. C. Dutta.

Treasurer : M. S. Krishnan.

Hind Mazdoor Sabha : Nagindas Chambers, 167, P. D'Mello Road, Bombay-400001.

Established : 1948.

Regional Offices : 35/B, Nirmal Chander Street, Calcutta-700013 ; 13-B, Second Line Beach, Madras-600001.

Total Membership : 880,405.

Number of affiliated Unions : 425.

Present Office-bearers :

President : A. Subramaniam.

Gen. Secretary : Mahesh Desai.

Treasurer : Kisan Tulpule.

Secretaries : Ram Desai, Vasant Kulkarni.

United Trades Union Congress : 249, Bepin Behari Ganguly Street, Calcutta-700012.

Established : By late Mrinal Kanti Bose, late K. T. Shah and Jatin Chakravorty in the year 1949.

Regional Offices : 780, Ballimaran, Delhi-110011 ; Mc Leen Street, Madras-600001 ; 119/75, Darshanpurwa, Kanpur-208012 ; Cantonment, Quilon ; Jakkapur, New Area, Patna-800001 ; 5th Road, Santa Cruz East, Bombay-400055.

Total Membership : 230,571.

Number of Affiliated Unions : 402.

Present Office-bearers :

President : N. Srikantan Nair.

Vice-Presidents : Tridib Chaudhury ; R. Ramanathan ; S. V. R. Acharya and Thakur Mukund Singh Vaid.

Actg. General Secretary : Jatin Chakravorty.

Secretaries : Baby John and Durga Bagchi.

Treasurer : Tara Das.

All-India Port and Dock Workers' Federation : Port Shramik Bhawan, 26, Dr. Sudhir Basu Road, Calcutta-700023.

Established : By P. D'Mello and Sibanlal Saxena in the year 1948.

Regional Offices : P. D'Mello Bhawan, Second Floor, P. D'Mello Road, Carnac Bunder, Bombay-400001 ; 18, Krishnan Koil Street, George Town, Madras-600001.

Total Membership : 175,000.

Number of Affiliated Unions : 26.

Present Office-bearers :

President : S. R. Kulkarni.

Vice-Presidents : S. C. C. Anthony Pillai ; Dr. S. Maitra ; Dr. Shanti Patel ; M. K. Raghavan and Nishamoni Khuntia.

General Secretary : Makhan Chatterjee.

Organising Secretary : K. A. Khan.

Assistant Secretary : G. D. Ball.

Treasurer : B. Dharma Rao.

Rashtriya Mill Mazdoor Sangh : Mazdoor Manzil, G. D. Ambedkar Marg, Parel, Bombay-400012.

Established : By late G. D. Ambedkar on 19-5-1940.

Total Membership : 100,000.

Present Office-bearers :

President : Rajni Patel.

Vice-Presidents : A. T. Bhosale, Gangaram Jadhav, D. S. Kumbar, Smt. S. P. Sirkar.

Secretaries : S. S. Surve, J. R. Rane, A. L. Parab, M. L. Paradkar, A. N. Likhate, N. K. Malgaonkar.

Treasurer : Miss E. D'Souza.

CRIME IN INDIA

Background : The trend of crime during the sixties shows a rise till the year 1967 — except for a marginal decrease in 1963 and 1965 — and a decrease thereafter. However, the growth of crime outsteps the growth of population during the years. The population increased from 431·7 million during 1960 to 550·0 million in 1970 representing an increase of 27·4 per cent, while the total cognizable crime under the Indian Penal Code increased from 606,367 to 955,422 during the same period, showing an increase of 57·6 per cent.

INCIDENCE OF CRIME AND POPULATION DURING 1966-1970 IN INDIA

Year	Population	Total Cognizable Crime	Rate of Crime per 100,000 of Population
1966	498·7	794,733	159·4
1967	511·3	881,981	172·5
1968	523·5	861,962	164·7
1969	536·6	845,167	157·5
1970	550·0	955,422	173·7

Crime Under Important Heads : The break up of I.P.C. crime under the important heads reveals that, as compared to 1969 there was a marked increase of 70·9 per cent under the head "robbery", while incidence of "dacoity", increased by 62·6 per cent in 1970. In the 10 years from 1960–1970, however, crime increased under all heads the highest increase being under the head "robbery" (170·8 per cent). There were significant increase under the head "riots" (147·1 per cent) and "dacoity" (154·1 per cent).

CRIME UNDER DIFFERENT HEADS
from 1967 to 1970

Heads of Crime	1967	1968	1969	1970
Total Cognizable Crime ..	881,981 (172·7)	862,016 (164·7)	845,167 (157·5)	955,422 (173·7)
Murder	13,398 (2·6)	13,841 (2·6)	14,732 (2·7)	15,708 (2·9)
Kidnapping and Abduction ..	8,192 (1·6)	8,847 (1·7)	8,464 (1·6)	10,111 (1·8)
Dacoity ..	6,300 (1·2)	6,357 (1·2)	6,049 (1·1)	9,837 (1·8)
Robbery ..	10,252 (2·8)	10,194 (1·9)	9,922 (1·8)	16,958 (3·1)
House-breaking	173,575 (34·0)	156,248 (29·8)	145,429 (27·1)	166,339 (30·2)
Cattle thefts ..	26,468 (5·2)	25,579 (4·9)	22,354 (4·2)	—
Ordinary thefts	313,393 (61·3)	289,945 (55·3)	277,786 (51·8)	337,211 (61·3)
Riots	42,447 (8·3)	45,811 (8·7)	55,796 (10·4)	68,331 (12·4)
Criminal Breach of Trust ..	23,950 (4·7)	22,410 (4·2)	21,118 (3·9)	22,679 (4·1)
Cheating ..	12,701 (2·5)	12,514 (2·4)	12,001 (2·2)	12,331 (2·2)
Counterfeiting ..	1,413 (0·3)	1,425 (0·3)	739 (0·1)	650 (0·2)
Miscellaneous ..	249,892 (48·8)	268,856 (51·3)	270,777 (50·5)	295,267 (53·7)

Note :—Figures in brackets indicate volume of crime per 100,000 population.

STATEWISE LIST OF CRIMES UNDER DIFFERENT HEADS, TOTAL CRIMES AND CRIMES ENDED IN CONVICTION DURING 1970

States/Territories	Murder	Kidnapping & Abduction	Dacoity	Robbery	House-breaking	Cattle thefts
Andhra Pradesh	1,092	149	137	190	4,919	680
Assam	500	511	195	240	1,382	540
Bihar	1,523	581	1,626	1,045	20,635	657
Gujarat	734	246	56	354	4,188	762
Haryana	192	145	12	23	1,715	346
Himachal Pradesh ..	42	57	1	28	366	35
Jammu & Kashmir ..	59	190	12	12	840	199
Kerala	372	75	42	154	3,414	136
Madhya Pradesh	1,725	970	416	881	16,430	combined with ordinary thefts
Maharashtra	1,356	543	391	1,532	14,497	1,625
Manipur	51	166	10	33	175	58
Mysore	694	125	81	136	6,193	599
Nagaland	24	9	13	23	148	1
Orissa	389	117	104	227	6,832	717
Punjab	574	301	—	28	1,524	188
Rajasthan	655	1,128	111	863	6,827	1,830
Tamil Nadu	890	297	94	107	6,658	1,627
Tripura	28	24	21	38	336	261
Uttar Pradesh	3,502	3,051	5,202	9,710	52,006	10,280
West Bengal	1,140	863	1,271	947	9,979	1,268
A. & N. Islands	8	1	—	2	30	1
Chandigarh..	12	16	1	2	133	9
Dadra & Nagar Haveli ..	5	—	3	5	26	2
Delhi	123	531	29	363	3,601	203
Goa, Daman & Diu ..	14	8	4	13	342	4
Laccadives	—	1	—	—	6	—
Pondicherry	4	6	5	2	137	20
All-India Total	15,708	10,111	9,837	16,958	166,339	22,048

STATEWISE LIST OF CRIME UNDER DIFFERENT HEADS, TOTAL CRIME AND CRIME ENDED IN CONVICTION DURING 1970—(*Contd.*)

States/Territories	Ordinary Thefts	Riots	Criminal Breach of Trust	Cheating	Counter-feiting	Total No. of Crime
Andhra Pradesh	10,714	3,388	655	378	17	43,942
Assam	6,670	3,111	408	291	8	25,908
Bihar	22,597	10,239	1,274	493	110	84,091
Gujarat	9,956	484	971	527	8	32,225
Haryana	2,233	107	278	168	3	8,902
Himachal Pradesh	401	49	85	60	—	2,381
Jammu & Kashmir	1,038	736	98	79	1	6,421
Kerala	5,259	4,269	381	196	59	31,617
Madhya Pradesh	*30,209	2,170	1,110	1,011	19	83,537
Maharashtra	41,053	2,043	3,030	1,644	57	96,552
Manipur	408	311	52	67	—	2,122
Mysore	10,089	1,953	768	530	33	35,566
Nagaland	300	14	15	9	—	744
Orissa	11,768	1,992	589	282	3	31,514
Punjab	2,696	44	405	277	6	12,478
Rajasthan	7,399	3,381	762	766	10	36,230
Tamil Nadu	17,730	3,057	1,244	824	234	63,619
Tripura	980	336	27	19	—	2,704
Uttar Pradesh	82,394	14,015	7,796	2,803	38	233,754
West Bengal	28,497	16,337	1,805	961	17	84,528
A. & N. Islands	73	16	11	1	—	308
Chandigarh	871	9	46	45	—	1,484
Dadra & Nagar Haveli	29	—	4	—	—	106
Delhi	17,804	201	772	861	25	31,241
Goa, Daman & Diu	367	21	60	18	—	1,195
Laccadives	10	—	—	1	—	28
Pondicherry	618	48	33	20	2	2,225
All-India Total	315,163	68,331	22,679	12,331	650	955,422

* Inclusive of cattle thefts

Disposal of Crime by Police : During 1970, 1,108,081 cases were under investigation with the police, including cases pending from the previous year. Out of these 925,815 cases were disposed off. The rest of the cases were not investigated for various reasons, e.g. mistake of fact or law or because the offence was non-cognizable by the police. Charge sheets were laid in 37·2 per cent of the cases disposed off, during 1970.

By Courts : The cases under trial numbered 866,504 during 1970. Out of these trials were completed in 284,865 cases. The percentage of conviction to total cases in which trials were completed was 63·1.

Results of Investigation : During 1970, 708,244 cases were reported to be true out of which charge sheets were laid in 344,496 cases. Trials were completed in respect of 284,865 cases during the year.

Persons Arrested : The number of persons arrested during 1970 was 1,115,081 as against 1,034,268 during 1969. The break-up of arrests under different heads of crime is : murder — 37,457 ; kidnapping and abducting — 12,630 ; dacoity — 34,498 ; robbery — 14,002 ; house-breaking — 81,482 ; cattle thefts and ordinary thefts — 182,999 ; riots — 351,039 ; criminal breach of trust — 12,350 ; cheating — 10,170 ; counterfeiting — 304 and miscellaneous — 378,150.

Crime Under Local and Special Laws : Cases reported in 1970 (excluding Jammu and Kashmir), under Arms Act were 19,701 ; under Opium Act were 10,462 ; under Gambling Act were 163,815 ; Excise/Prohibition Act were 278,695 ; Explosive Substance Act/Exp Act were 3,182 ; SIT in women and Girls Act — 6,738** ; Motor Vehicles Act — 1,112,694** and offences under other special and local laws deemed to be cognizable but not included in the above were 1,289,230.

Juvenile Delinquency : Crimes numbering 27,226 were committed by juveniles in 1970. State-wise and crime-wise break-up of offences is given below : During the year, 90,249 juveniles were sent to Court out of whom disposal of 27,358 cases remained pending at the end of the year. 11,462 juvenile offenders were sent to adult institutions or jails while 10,665 were restored to guardians.

** Excluding Jammu & Kashmir and Uttar Pradesh.

JUVENILE DELINQUENCY IN STATES AND UNION TERRITORIES DURING 1970

States/Territories	Total Cognizable Crime	Murder	Kidnapping and Abduction	Dacoity	Robbery	House Breaking
Andhra Pradesh	326	3	—	—	—	71
Assam	887	30	18	8	11	156
Bihar	1,620	35	6	24	7	214
Gujarat	2,931	100	31	4	34	302
Haryana	557	15	4	—	3	84
Himachal Pradesh	267	3	9	—	10	57
Jammu & Kashmir	105	1	4	—	3	18
Kerala	187	1	—	—	1	49
Madhya Pradesh	5,836	163	58	28	42	1,011
Maharashtra	5,398	109	39	43	61	836
Manipur	174	7	7	6	7	22
Mysore	781	13	2	2	—	142
Nagaland	342	—	—	—	3	9
Orissa	560	1	—	—	3	187
Punjab	148	11	3	—	—	10
Rajasthan	1,124	15	12	1	7	263
Tamil Nadu	2,444	16	3	—	3	466
Tripura	—	—	—	—	—	—
Uttar Pradesh	1,403	13	9	8	21	6
West Bengal	710	7	12	2	4	26
Union Territories						
A. & N. Islands	8	—	—	—	2	6
Chandigarh	100	2	2	—	—	10
Dadra & Nagar Haveli	17	1	—	3	—	—
Delhi	1,139	11	33	—	22	113
Goa, Daman and Diu	70	1	3	—	—	26
Pondicherry	—	—	—	—	—	—
Laccadives	92	—	—	—	—	9
All-India Total	27,226	558	225	129	244	4,093

JUVENILE DELINQUENCY IN STATES AND UNION TERRITORIES DURING 1970—(*Contd.*)

States/Territories	Thefts Cattle	Thefts Ordinary	Riots	Criminal Breach of Trust	Cheating	Counter-feiting	Miscel-laneous
Andhra Pradesh	—	222	2	—	—	—	28
Assam	5	331	81	4	8	—	235
Bihar	5	336	847	25	5	—	116
Gujarat	45	967	68	45	20	—	1,315
Haryana	8	169	10	5	2	—	257
Himachal Pradesh	—	54	18	5	2	—	109
Jammu & Kashmir	12	16	—	—	4	—	47
Kerala	—	81	—	1	1	—	53
Madhya Pradesh	51	1,555	338	22	32	—	2,536
Maharashtra	8	2,371	284	57	33	—	1,557
Manipur	—	44	21	—	1	—	59
Mysore	22	392	32	14	15	—	147
Nagaland	—	5	—	—	—	—	325
Orissa	40	302	—	5	1	—	21
Puanjab	—	50	—	—	2	—	71
Rjasthan	70	312	66	1	8	—	369
Tamil Nadu	*	1,511	4	10	3	—	428
Tripura	—	—	—	—	—	—	—
Uttar Pradesh	157	287	8	1	9	—	884
West Bengal	3	418	86	2	6	—	144
Union Territories							
A. & N. Islands	—	—	—	—	—	—	—
Chandigarh	3	47	—	2	1	—	30
Dadra & Nagar Haveli	2	6	—	—	—	—	5
Delhi	—	495	20	19	10	—	409
Goa, Daman and Diu	—	28	3	2	—	—	6
Pondicherry	—	—	—	—	—	—	—
Laccadives	21	10	—	—	—	—	52
All-India Total	453	10,009	1,888	220	174	—	9,203

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* Combined with ordinary theft.

Juveniles Apprehended : The number of juvenile boys apprehended was 94,617, and girls 4,228, in the year 1970. Out of the youthful offenders apprehended, 11,405 were between 7–12 years of age, 18,690 between 12–16 years, and 68,750 between 16–21 years.

Property Stolen and Recovered : The value of property stolen in India during 1970, was Rs. 361·397 million and 486,608 cases of stolen property were registered during the year. House breaking and thefts accounted for 433,326 cases. Value of property recovered was Rs. 79·976 million.

Nature of property	No. of cases of stolen property	Value of property stolen	Value of property recovered
		Rs.	Rs.
Copper wire	20,797	13,023,000	1,498,000
Cattle	25,183	13,829,000	5,252,000
Cycle	39,938	6,960,000	1,417,000
Motor vehicles and accessories	8,495	43,718,000	26,472,000
Fire Arms	750	702,000	204,000
Explosives	36	30,000	17,000

Policemen Killed or Injured : During 1970, 148 policemen died on duty. The maximum number of deaths were due to accidents (61), followed by criminal assault (33). Twenty policemen lost their lives in dacoity operations or raids during 1970, while 2 were killed on border duties. The maximum number were killed in West Bengal (54) followed by Uttar Pradesh (25), Jammu and Kashmir (12), and Maharashtra (25). Under the head 'accidents' Uttar Pradesh recorded the maximum number of deaths, (15), while in 'dacoity' operations and raids West Bengal recorded the maximum (14 out of 27). In all ten Union Territories only 1 policeman was reported to have been killed while on duty.

The total number of policemen injured on duty was 4,003 during 1970 against 3,791 during 1969. 2,773 policemen received injuries while facing riotous mobs and 859 were injured in clashes with criminals. The number of personnel who were injured on border duties came to 113 in 1970 to 24 in 1969. West Bengal reported the maximum number of police personnel injured (792), followed by Maharashtra (594) and Mysore (505). Under the head 'Riotous mobs' the States of West Bengal (691), Mysore (474) and Maharashtra (343) have recorded a large number of policemen injured during 1970. In Maharashtra the number of personnel injured by other criminals was the highest (163) while under 'dacoity operations or raids' the maximum number of policemen injured (30 out of 120) were in Maharashtra. Among the Union Territories, Delhi recorded the maximum number of policemen injured (69) followed by Goa, Daman and Diu (54).

STRENGTH OF POLICE FORCE IN INDIA 1970

States	Civil Police (including distt. Armed Reserve)	Armed Police	Total
Andhra	36,390	6,154	42,544
Assam	12,538	16,584	29,122
Bihar	32,769	9,110	41,879
Gujarat	32,984	7,744	40,728
Haryana	7,724	3,114	10,838
Himachal Pradesh	4,331	1,594	5,925*
J. & K.	8,538	2,690	11,228*
Kerala	14,694	2,018	16,712
Madhya Pradesh	35,108	18,426	53,534
Maharashtra	69,313	7,666	76,979
Manipur	2,270	2,133	4,403
Mysore	25,387	3,506	28,893
Nagaland	815	5,464	6,279*
Orissa	17,133	5,936	23,069
Punjab	16,127	4,092	20,219*
Rajasthan	29,762	5,730	35,492
Tamil Nadu	37,303	4,423	41,726
Tripura	2,622	817	3,439
Uttar Pradesh	—	—	87,115*
West Bengal	48,136	15,487	63,623
Andaman & Nicobar I	1,035	246	1,281*
Chandigarh	1,687	—	1,687*
Dadra & Nagar Haveli	62	35	97
Delhi	—	—	16,687**
Goa, Daman & Diu	1,321	556	1,877
Laccadives	164	—	164
Pondicherry	551	365	916

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* Sanctioned Police strength.

** Separate figures for civil and armed are not available.

AWARDS AND PRIZES

INCLUDING the 1973 awards, the number of persons who have received Bharat Ratna is 15, Padma Vibhushan 69, Padma Bhushan 338 and Padma Shri 684.

The highest award Bharat Ratna is given for exceptional work for the advancement of art, literature and science and in recognition of public service of the highest order.

The 15 persons who have received Bharat Ratna are: Mr. Jawaharlal Nehru (1954), Mr. C. Rajagopalachari (1954), Dr. S. Radhakrishnan (1954), Dr. C. V. Raman (1954), Dr. Bhagwan Das (1955), Mr. M. Visvesvarayya (1955), Pandit Govind Ballabh Pant (1957), Dr. D. K. Karve (1958), Dr. B. C. Roy (1961), Mr. Purushottam Das Tandon (1961), Dr. Rajendra Prasad (1962), Dr. Zakir Hussain (1963), Dr. P. V. Kane (1963), Mr. Lal Bahadur Shastri (Posthumous) (1966) and Smt. Indira Gandhi (1972).

R-DAY AWARDS

Padma Vibhushan

Services : Group Capt. S. Das (posthumous); Gen. P. P. Kumaramangalam (1970); Lt. Gen. Harbakhsh Singh (1970); Gen. Sam Hormusji Framji Jamshedji Manekshaw (1972); Admiral Sardarilal Nanda (1972); Air Chief Marshal P. C. Lal (1972).

Industrialists : Dr. A. Ramaswami Mudaliar (1970); Mrs. Sumati Morarjee (1971).

Medicine : Dr. V. N. Shirodkar (1971).

Public Service : Dr. B. R. Sen (1970); A. L. Dias (1970); B. Sivaraman (1971); B. P. Chaliha (1971); Dr. Aditya Nath Jha (Posthumous–1972); Ghulam Mohammed Sadiq (Posthumous–1972); Hormusji Maneckji Seervai (1972); Dr. Jivraj Narain Mehta (1972); Prahlad Balacharya Gajendragadkar (1972); Dr. D. S. Kothari (1973); Dr. Nagendra Singh (1973); T. Swaminathan (1973).

Artists : Ustad Allauddin Khan (1971) ; Uday Shankar (1971).

Education : Dr. Tara Chand (1970).

Freedom Fighters : Mrs. Basanti Devi (1973) ; Mrs. Nellie Sen Gupta (1973) ; U. N. Dhebar (1973).

Padma Bhushan

Social Work : A. V. "Annasaheb" Sahasrabudhe (1970); N. S. Kajrolkar (1970) ; Miss S. Saini (1970) ; G. D. Bhatt (1971) ; Mrs. Gulestan Rustom Billimoria (1972) ; Madhavraoji Khanderao Bagal (1972) ; Mrs. Yashodhara Dasappa (1972) ; N. R. Malkani (1973) ; Vennelakanti Raghavaiah (1973).

Industrialists : N. M. Wagle (1970) ; B. D. Garware (1971) ; D. C. Shah (1971) ; K. N. Mookerjee (1971) ; M. R. Jaipuria (1971) ; M. J. Patel (1971) ; V. R. Mohan (1971) ; Amrut Vithaldas Mody (1972) ; Dr. Bharat Ram (1972) ; Maheshwar Dayal (1972) ; Dr. Raja Muthiah Annamalai Muthiah Chettiar (1973).

Artists : Ahmad Jan Thirakawa (1970) ; Mrs. H. Barodekar (1970) ; Mrs. Kamala (1970) ; Ramkinkar Baiz (1970) ; Sombhu Mitra (1970) ; Amir Khan (1971) ; Mrs. D. K. Pattammal (1971) ; Mrs. Gangubai Hangal (1971) ; Jaishankar Sundari (1971) ; K. Phulambrikar alias Master Krishnarao (1971) ; M. S. Iyer (1971) ; Nisar Husain Khan (1971) ; Palghat T. S. Mani Iyer (1971) ; P. K. Kunju Kurup (1971) ; Raj Kapoor (1971) ; Birendra Nath Sircar (1972) ; Papanasam Ramayya Sivam (1972) ; Vinayakbuwa Patwardhan (1972) ; Chembai Vaidyanatha Bhagavathar (1973) ; Krishna Rao Shankar Pandit (1973) ; Maqbool Fida Husain (1973).

Literateurs : Dr. Amiya Chakravarty (1970) ; B. Bose (1970) ; Gurram Joshuva (1970) ; Dr. S. A. Latif (1970) ; Dr. V. Satyanarayana (1970) ; Yashpal (1970) ; Anant Vithal *alias* Dhananjay Keer (1971) ; B. C. Verma (1971) ; J. K. Jain (1971) ; K. C. Panigrahi (1971) ; N. R. Pillai (1971) ; Prof. P. Sambamoorthi (1971) ; Adya Rangacharya 1972) ; Harindranath Chattopadhyaya (1973).

Medicine : Dr. M. P. Mehray (1970) ; Dr. P. N. Wahi (1970) ; Dr. B. Mukhopadhyaya (1971) ; M. M. Singh (1971) ; Dr. S. K. M. Mukerjee (1971) ; Dr. S. J. Mehta (1971) ; Dr. D. V. Ramalingaswami (1971) ; Dr. Baldev Singh (1972) ; Dr. Bhalchandra Nilkanth Purandare (1972) ; Dr. Lakhumal Hiranand Hiranandani (1972) ; Dr. Shantilal Chhaganlal Sheth (1972) ; Dr. Sujoy Bhushan Roy (1972).

Educationists : Dr. B. N. Ganguli (1970) ; Dr. P. K. Kelkar (1970) ; T. S. A. Chettiar (1970) ; N. R. Ayyar (1971) ; Dr. Suraj Bhan (1971) ; Dr. V. S. Jha (1971) ; Dr. Jai Krishna (1972) ; Dr. Mohinder Singh Randhawa (1972).

Scientists : Dr. K. Ramiah (1970) ; Dr. M. S. Krishnan (1970) ; Dr. P. V. Sukhatme (1971) ; Dr. S. Dhawan (1971) ; Prof. Dattatreya Yeshwant Phadke (1972) ; Prof. L. A. Krishna Iyer (1972) ; M. B. Ramachandra Rao (1972) ; Dr. Pran Nath Chhutani (1972) ; Prof. Ram Narayan Chakravarti (1972) ; Dr. Raja Ramanna (1973) ; Ramakant Maheshwar Mazumdar (1973) ; Dr. Om P. Bahl (1973).

Public Service : Bhagwantrao A. Mandloi (1970) ; G. A. Narasimha Rao (1970) ; Hans Raj Gupta (1970) ; M. R. Brahmam (1970) ; J. C. De (1971) ; K. L. Vij (1971) ; M. N. Chakravarti (1971) ; Dr. P. L. Verma (1971) ; R. M. Deshmukh (1971) ; Dr. S. C. Roy (1971) ; Ayyagiri Sambasiva Rao (1972) ; Dr. Bal Dattatreya Tilak (1972) ; Benoy Bhushan Ghosh (Posthumous–1972) ; Chandrika Prasad Srivastava (1972) ; Mohmad Yayath (1972) ; Dr. M. S. Swaminathan (1972) ; Nori Gopala Krishnamurti (1972) ; Tonse Ananth Pai (1972) ; Mrs. G. M. Sorabji (1973) ; S. K. Mukherjee (1973).

Journalists : R. L. Joshi (1970) ; V. Mukhopadhyaya (1970) ; K. M. Cherian (1971) ; R. K. Laxman (1971) ; Prof. Krishnaswami Swaminathan (1972) ; Pothen Phillip (1972) ; Banarsi Das Chaturvedi (1973) ; K. Sukumaran (1973) ; Pothen Joseph (Posthumous — 1973).

Services : Lt.-Gen. G. Bewoor (1972) ; Lt.-Gen. K. P. Candeth (1972) ; Lt.-Gen. Jagjit Singh Aurora (1972) ; Lt.-Gen. Sartaj Singh (1972) ; Lt.-Gen. K. K. Singh (1972) ; Lt.-Gen. Sagat Singh (1972) ; Lt.-Gen. T. N. Raina (1972) ; Maj.-Gen. I. S. Gill (1972) ; Vice-Admiral S. N. Kohli (1972) ; Vice-Admiral N. Krishnan (1972) ; Air Marshal M. M. Engineer (1972) ; Air Marshal H. C. Dewan (1972).

Border Security Forces : Dir.-Gen. K. F. Rustomji (1972) ; Insp.-Gen. Aswini Kumar (1972).

Sports : Vinoo Mankad (1973).

Padma Shri

Services : Brig. Harish Chandra (1972) ; Maj. Harsh Vadhan Bahuguna (Posthumous–1972) ; Om Prakash Bahl (1972) ; Dr. Virendra Verma (1972) ; Wing Commander K. Ramachandra Rao (1973).

Border Security Forces : Insp.-Gen. Bhuwan Pande (1972) ; Insp.-Gen. Pallessena Ramanathan Gopal (1972) ; Dy. Comr. Rajinder Singh (1972) ; Dy. Comr. Sukhbir Singh (1972) ; Dy. Comr. Swaran Singh Boparai (1972).

Social Work : Mrs. Alice Khan (1970) : D. S. Wagh (1970) ; D. N. Samant (1970) ; Mrs. Indumati Sheth (1970); J. R. Jairamdas (1970) ; Miss Maniben Kara (1970) ; Mohan Naik (1970) ; Pandita S. N. Shah (1970) ; P. P. Gokhale (1970) ; Mrs. Adhya Jha (1971) ; A. R. Surana (1971) ; Mrs. A. B. Wadia (1971) ; K. V. Naidu (1971) ; Rani L. R. Bhargava (1971) ; M. D. Amte (1971) ; P. D. Jadav (1971) ; P. R. Bhatt (1971) ; R. Iyer Mathruboothaam (1971) ; Mrs. Savitabehen (1971) ; Lt. Col. S. C. Dutta (1971) ; Rev. Mother Theodosia (1971) ; V. V. Iyer (1971) ; Mrs. Chandra Prava Saikiani (1972) ; Iyyanki Venkata Ramanayya (1972) ; Mrs. Kanta Saroop Krishen (1972) ; Palhalli Sitaramiah (1972) ; Mrs. Surrinder Bansidhar Gupta (1972) ; Dr. J. N. Vazifdar (1973) ; Lt.-Col. K. S. Babu (1973) ; Mrs. Sarojini Varadarajan (1973) ; Mrs. Sulochana Modi (1973).

Industrialists : D. M. Dahanukar (1970) ; G. D. Goyal (1970) ; G. R. Hada (1970) ; Phul Chand (1970) ; D. S. Jindal (1971) ; K. Dulabhji (1971) ; M. A. Lari (1971) ; Bhai Mohan Singh (1971) ; Badri Prasad Bajoria (1972) ; Mohan Lal Chordia (1972) ; Prabhu Dayal Dabriwala (1972).

Agriculturists : S. A. Patil (1971) ; Surya Deo Singh (1971) ; Puran Lal Batra (1972) ; Vir Prakash Agnihotri (1972).

Architect : Charles Mark Correa (1972) ; P. O. Sompura (1973).

Painter : S. G. Thakar Singh (1973).

Artists : A. H. Jafar Khan (1970) ; A. A. Vyas (1970) ; Mrs. Damyanti Joshi (1970) ; Ezra Mir (1970) ; G. Venketeswara Rao (1970) ; K. K. Nair (1970) ; Karl J. Khandalavala (1970) ; Mrs. K. B. Sundarambal (1970) ; M. A. Singh (1970) ; M. Mansur (1970) ; Pankaj Mullick (1970) ; Rajendra Kumar (1970) ; R. C. Mallik (1970) ; R. Ganesh (1970) ; Mrs. Ratna Fabri (1970) ; Velangi Venkataramaiah (1970) ; Ritwik Ghatak (1970) ; Sukumar Bose (1970) ; T. R. Mahalingam (1970) ; V. S. Sarma (1970) ; Vijayraghava Rao (1970) ; Karaikal D. Pillai (1971) ; Mangalampalli B. Krishna (1971) ; Manna Dey (1971) ;

Qadri Ragi A. A. Khan Warsi (1971); R. S. Sharma (1971); Sankho Chaudhari (1971); Mrs. Shantha Rao (1971); Mrs. Sheila Bhatia (1971); Pt. S. Tiwari (1971); Tripti Mitra (1971); T. K. S. Pillai (1971); V. Kunchu Nair (1971); Bhim Sen Joshi (1972); Chiranjit (1972); Mrs. Girija Devi (1972); Dr. Gubbi Hampanna Veeranna (1972); Rishikesh Mukherjee (1972); Mrs. Juthika Ray (1972); Krishna Reddy (1972); Lalgudi Jayaraman (1972); Madras Kandaswamy Radha (1972); Mahendra Kapoor (1972); Raghu Rai (1972); Ram Kumar (1972); Samta Prasad (1972); Mrs. Savitri Indrajit Parekh (1972); Sheikh Gulab (1972); Mrs. Suchitra Sen (1972); Sunil Janah (1972); Surendra Nath Banerji (1972); Takhelchangbam Amudon Sharma (1972); Vasudev Santu Gaitonde (1972); Vazhuvoor Bhagyalakshmi Ramiah Pillai (1972); Miss Waheeda Rahman (1972); Balasubramanya Sastrigal (1973); C. S. Murugabhupathy (1973); D. K. Sengupta (1973); Kishen Maharaj (1973); Shakoor Khan (1973); Sitara Devi (1973); Thikkurussi Sukumaran Nair (1973); T. N. Krishnan (1973); Kum. Uma Sharma (1973).

Literateurs : A. C. Barua (1970); K. R. Mallik (1970); P. N. Renu (1970); Prem Dhawan (1970); P. Lal (1970); S. Shastri Chitrao (1970); Sikandar Ali Wajd (1970); Sohan Lal Dwivedi (1970); S. M. H. Rizvi (1970); A. H. Sahir Ludianvi (1971); A. C. Hazarika (1971); C. K. Shastri (1971); K. Subhu (1971); Labhu Ram "Josh Malsiani" (1971); P. N. Bishi (1971); Suresh Singh (1971); S. M. M. Mohazzeb (1971); Ghulam Rabbani Taban (1971); Badal Sarkar (1972); Bhawani Prasad Tiwari (1972); Dharam Vir Bharati (1972); Mylai Ponnuswami Sivagnanam (1972); Puttaparthi Narayanacharya (1972); Balwant Gargi (1973); Dr. B. Bheomanna (1973); R. R. Desai (1973); S. Machhlisheri (1973).

Public Service : Gurdas Mal (1970); L. S. Darbari (1970); Narain Singh (1970); Dr. S. K. Bhattacharya (1970); W. R. Rishi (1970); A. B. Dasgupta (1971); A. R. Bhatt (1971); D. V. Reddy (1971); H. D. Shourie (1971); H. D. Wahi (1971); Jagmohan (1971); K. S. Pathak (1971); P. Kandaswamy (1971); P. N. Sahni (1971); Ram Lal Mehta (1971); S. K. Nargundkar (1971); Miss S. J. Dassgupta (1971); S. Parmanandhan (1971); S. K. Chakravarty (1971); U. N. Jethwa (1971); Dr. Y. Nayudamma (1971); Brijbir Saran Das (1972); Chandra Shekhar Samal (1972); Dabdulal Bandopadhyaya (1972); Himanshu Mohan Choudhury (1972); Homi Cawas Sethna (1972); Kailas Chandra Sengupta (1972); Kamal Kanti Naskar (1972); Karachur Lingappa Nanjappa (1972); Moreshwar Mangesh Wagle (1972); Pradeep Kumar Banerjee (1972); Ramamurthi Badrinath (1972); Vijay Singh (1972); Jagish Lal (1972); Surjit Singh Gujral (1972); Shumsher Singh (1973); V. Krishnamurthy (1973); V. R. Vengurlekar (1973); Balasubramanyan Ramadorai (1973); Brig. B. J. Shahaney (1973); C. T. Patel (1973); Chinnaswamy Rajan Subramanian (1973); Debi Prasad Mukherji (1973); F. C. Gera (1973); H. K. Karve (1973); Ijwant Singh (1973); J. K. Bagchi (1973); Kamal Krishna Sinha (1973); Dr. M. G. Krishna (1973); Dr. N. K. Panikkar (1973); P. N. Bhaskaran Nair (1973); Panimangalore Appraya Bhat (1973); P. B. Chitnis (1973); Raghunath Singh Gahlow (1973); Dr. R. V. Ramaswamy (Posthumous—1973); Shridhar Upadhyay (1973).

Sportsmen : B. S. Bedi (1970); E. A. S. Prasanna (1970); S. M. M. H. Haq (1970); Chandagi Ram (1971); Ghaus Mohamed (1971); G. R. Vishwanath (1971); Miss Kamaljit Sandhu (1971); Leslie Claudius (1971); S. N. Manna (1971); Ajit Laxman Wadekar (1972); Bhagavath Subramany Chandrasekhar (1972); Farokh Engineer (1973).

Ornithologist : Zafar Futehally (1971).

Ophthalmologist : Dr. G. Venkataswamy (1973).

Philanthropist : S. R. Panhale (1973).

Doctors : Dr. A. K. Basu (1970); Dr. B. N. Sinha (1970); Dr. C. Gopalan (1970); Dr. C. S. C. Sadasivan (1970); Dr. P. S. Reddy (1970); Dr. P. P. Sahni (1970); Dr. R. Vir Singh (1970); Dr. B. N. Balkrishna Rao (1971); C. P. Misra (Ayurved) (1971); Dr. Hari Mohan (1971); Dr. K. S. Sanjivi (1971); Dr. Robin Banerjee (1971); Dr. S. Krishnamurti (1971); Dr. Dattatraya Nagappa Pai (1972); Dr. Dorothy Woodworth Dunning Chacko (Mrs. C. Joseph Chacko) (1972); Dr. Gopaliah Subbukrishna Melkote (1972); Dr. (Miss) Leela Vinayak Phatak (1972); Dr. (Miss) Mary Varghese (1972); Dr. Prithvi Nath Khoshoo (1972); Dr. Ravivarma Marthanda Varma (1972); Dr. Balu Sankaran (1972); Dr. (Mrs.) Sant Kaur (1972); Dr. Thayil John Cherian (1972); Dr. (Mrs.) Vatsala Seemant Choudhury (1972); Dr. Ramesh Nigam (1973); Dr. Bhola Nath (1973); Dr. Kandarp Tulja Shankar Dholakia (1973); Dr. M. K. Krishna Menon (1973); Dr. Nagendra Singh Jain (1973); P. N. Tandon (1973); Dr. R. K. Menda (1973).

Educationists : C. D. S. Devanesan (1970); Din Dyal (1970); Miss Lillian G. Lutter (1970); Dr. P. Narasimhayya (1970); Dr. V. V. Rao (1970); Miss G. M. Linnell (Posthumous) (1971); N. G. Thakar (1971); N. C. Sinha (1971); Prof. R. S. Mishra (1971); Sadashiv Misra (1971); Miss S. Panandikar (1971); Jagannath Krishan Kate (1972); Dr. K. Kripal Singh (1972); Phool Chand Chowdhary (1972); Prof. Pran Nath Mehra (1972); Dr. Syam Nandan Prasad Kishore (1972); Vedakantara Subramania Krishnan (1972); Vidya Nath Langer (1972); Mrs. Coover Bai Jehangir Vakil (1973); Dr. M. A. K. Malik Mohamed (1973); Kum. Rohini Poovaiah (1973).

Freedon Fighter : S. L Gupta (1973).

Scientists : Dr. G. A. Bandey (1970); Dr. P. R. Pisharoty (1970); Dr. R. T. Doshi (1970); M. Krishnan (1970); Dr. C. N. K. Murthy (1971); Prof. Devendra Lal (1971); Dr. Harbhajan Singh (1971); Dr. Moti Lal Dhar (1971); Dr. S. V. S. Shastry (1971); T. V. Ramamurti (1971); C. R. Pillai (1971); Dramia Bhushan Kar (1972); Prof. Balasubramaniam Ramamurthi (1972); Hari Prasad Jaiswal (1972); Dr. Katil Narasimha Udupa (1972); Dr. Atma Prakash (1973); Prof. Govind Swarup (1973); Dr. J. M. Pahwa (1973); K. Raghavachari (1973); Dr. Nandlal Bordia (1973); Dr. Triloki Nath Sharma (1973).

Journalists : Shalil Ghosh (1972); Mrs. Y. V. Khadilkar (1973).

ARMED FORCES AWARDS

Gallantry Awards for Defence Services: During the 14-day Indo-Pakistan War a number of gallantry awards were given to the Defence Services personnel and Border Security Forces.

A complete list of these winners was published in the Directory of 1972.

Awards for 1973 :

Param Vishisht Seva Medal : Lt.-Gen. Daljit Singh Kalha; Maj.-Gen. Satinder Singh; Maj.-Gen. M. R. Rajwade; Maj.-Gen. Rajkumar Ranjit Singh; Maj.-Gen. Anil K. Barat, Maj.-Gen. T. V. Jagannathan; Maj.-Gen. Robert George William; Maj.-Gen. Shreenivas K. Sinha; Rear-Admiral K. Laxman Kulkarni; Rear-Admiral Sarosh J. Lalkaka; Rear-Admiral Rabinder Nath Batra; Group Captain Prabhu Datt Chopra.

Kirti Chakra : Patiram, Pal-ka-Pura village, Madhya Pradesh; Hazari, Chandrapura, Madhya Pradesh: 7995053; Naik Mohd. Dar, Pioneer Corps and Krishna Kirar and Pritam Kirar of Sahasram village, Madhya Pradesh.

Ati Vishisht Seva Medal : Maj.-Gen. S. P. Mahadevan; Brig. Stanley W. Burett; Brig. Hardit Singh Sobti; Brig. Noble Adiseshiah; Brig. L. K. A. Ananthanarayanan; Brig. C. Chacko Uthup; Brig. Percy H. Alfred; Brig. Keshab Das Gupta; Brig. Sanyam Singh Juneja; Brig. Kedar Nath Tandon; Brig. Kanwar Surendra Singh; Brig. Rajeshwar Singh; Brig. Anand G. Kanetkar; Brig. Ramswarup Singh Sheoran; Brig. M. Jayaraman; Brig. Dil Bagh Rai; Commodore K. V. R. I. Ramnath; Commodore Jadveshwar Chatterjee (retired); Commodore Vasanta Katdare; Commodore Anil K. Bhatia; Air Commodore John Aquino; Air Commodore Virendra Mohan Bhatnagar; Air Commodore Saroj Jena; Air Commodore Murat Singh Aulak, Flying (pilot retired); Col. Prakash Chandra Jaidka; Col. Kali Nath Duggal; Col. Uttamjit Singh Anand; Col. Herbert C. Abraham; Col. Narindar Singh Brar; Col. Aloke C. Bose; Col. Prabhu Lal Negi; Col. P. N. Parameshwaran Navar; Col. Shyamal K. Patra; Col. V. Narayanan Kutty Nayar; Col. A. Sivasankara Pillai; Capt. Nar Pati Datta (IN); Surg. Capt. Madan Gopal Anand (IN); Capt. Keshob C. Chatterjee (IN); Capt. Jagdish Singh Bawa (IN); Capt. Douglas R. Shepherd (IN); Gp. Capt. C. I. Nedumgadi; Gp. Capt. K. Ravindran Nair; Gp. Capt. Abhijit K. Gupta; Gp. Capt. George Verghis; Gp. Capt. Prabhakar S. Dere; Wg. Cdr. K. N. Ramaswamy (retired); Wg. Cdr. Kuldip Singh Bhatia; Wg. Cdr. Ranjit Dhawan and Sqn. Ldr. Arun Keshav Sapra (posthumous).

Vir Chakra: Gp. Capt. Man Mohan Singh; Maj. Dipak K. Ganguly (posthumous); Capt. Hamir Singh; Sqn. Ldr. D. S. Jafa; Flt.-Lt. M. S. Grewal; Flt.-Lt. A. V. Pethia; Flg. Offr. K. C. Kuruvilla; Flt.-Lt. Apramjeet Singh; 3340727 Nb. Sub. Gian Singh (posthumous); 3144100 Hav. Amar Singh; 9207565 Sep. Kharak Singh (posthumous) and 1616 Asstt. Camdt. Nefe Singh Dalal (posthumous).

Shaurya Chakra : B. S. Gill, junior engineer, Central Public Works Department, Amritsar; Sri Kishan Sharma, driver, Northern Railway, Jodhpur division; Roop Chand, Permanent Way Inspector, Northern Railway, Jodhpur; O. P. Chopra, Asstt. Engineer, Northern Railway, Jodhpur; Jogesh C. Das, Circle Organiser, Dhemaji, SSB, North Assam Division, Tezpur; Chironji, Zalim, Mukandi, Badri, and Balwant of Chandrapura village, Morena District, Madhya Pradesh; 9204775 L/Nk. Kalandar Singh, Dilip Kumar Dev, Joyanagar village, Agartala; Prafulla Ranjan Sen Gupta, manager, Simna tea garden, Tripura; Dhirendra Sen Gupta, Sonamura town, Tripura; Sunil B. Dey, Sonamura; Sadananda Guha, Sonamura; Ramesh Majumdar, Debipur village, Tripura; Jadunandan Dutta, Secretary, Belonia Bar Association, Tripura; Dr. Rabindra Nath Choudhury, medical officer in charge, Primary Health Centre, Hrishyamukh (Belonia); Dr. Prem Sagar Garg, Senior Medical Officer, Fazilka, Punjab; Dr. (Mrs.) Pushpa Ohri, Civil Hospital, Fazilka; Dr. O. P. Mahajan, Medical Officer in Charge, Civil Dispensary, Dera Baba Nanak; Sudesh Kumar, Sectional Officer, Aminpur subdivision, Dera Baba Nanak; C. P. Narayanan, Assistant Armament Supply Officer; N. Rangachary, Professional Assiatant, India Meteorological Department, Bhuj; Ganga Singh Gill, Senior Aerodrome Officer, Amritsar; Mihir K. Sengupta, Aerodrome Officer, Agartala; Kailash C. Mahajan, Sub-Divisional Magistrate, Fazilka; Jc.-Nya. Naib Sub. Shingara Singh, engineer (radio operator); 235583 Corp. Gurdip Singh Deol, blacksmith and welder; G/26335 DME Bhag Singh, GREF; G/72356 Pnr. Ram Singh, GREF; G/313451 DME. Prem Chand, GREF GO-443 EE (Civ.) Sarb Deo Chowdhary, GREF; GO-694 Ashok Kumar Mukherjee, AEE(C), GREF; G/107190 Ali Gohar, Supdt. B/R GDE I, GREF; G/27707 Ramesh Lal, DME, GREF; G/85095 Prem Singh, EEM, GREF; G/104932 V. Koshy Thomas, peon, GREF; Corpl. Jairaj Vind, airfield safety operator; 2659927 Grenadier Ran Singh, 6 Grenadiers, and Civ. driver Nand Kumar Jha (posthumous).

Sena Medal : Maj. Jang Bahadur Singh Mehta, 7 Dogra; Maj. Man Mohan Malik, 4/5 Gorkha Rifles; Capt. Surinder Singh, AOC; 2/Lt. Jasbir Singh, 4 Kumaon; 2/Lt. Mehar Singh Pathania, 19 Punjab; JC-41603 Sub. N. K. Bhaskaran Nair, AOC; JC-39977 Sub. Dhan Bahadur Khattri, 4/9 Gorkha Rifles; JC-51140 Sub. Rup Bahadur Mall, 4/9 Gorkha Rifles; 3141103 Hav. Rajbir Singh, 11/Jat; 3944346 Hav. Roshan Lal, Dogra; 3153871 Nk. Budha Ram, 11/Jat; 5836392 Nk. Nar Bahadur Chhetri, 9 Gorkha Rifles; 5439012 L/Nk. Siri Ram Thapa, 4/5 Gorkha Rifles; 3962249 L/Nk. Jagir Singh, 7 Dogra and 4539750 Sep. Shrirang Sawant, 8 Mahar.

Nao Sena Medal : Commander Tej Krishna Sachdev; Lieut.-Commander Bhupinder Singh Achreja; Lieut.-Commander Sailesh R. D. Gupta; Lieut.-Commander Jai Gopal; Lieut.-Commander Dilip Choudhuri; Lieut.-Commander Purushottam Dutt Sharma; Lieutenant Bansi Lal 55 ARMA; Lieut. Ajit Tiwari; Sub.-Lieutenant Anup K. Mehrotra; 43177 Ganpat Singh, Master Chief Petty Officer; 46993 Jiba Nand Thapliyal, Petty Officer; 89175 Mohan Dass Perincheri, Leading Air Handler; 91956 Dharam Prakash, Seaman 1st class and 52576 Ramachandra Athiraman, Engine Room Artificer; Bar to Nao Sena Medal has been awarded to Commander Amrik Singh, NM, VSM.

Vayu Sena Medal : Wg. Cdr. Jagjit Singh Lamba; Wg. Cdr. Kanwal K. Malik; Wg. Cdr. Man Mohan Sinha; Wg. Cdr. Bhalchandra S. Deshmukh; Wg. Cdr. Walter H. Marshal; Wg. Cdr. Har Krishan Oberai; Wg. Cdr. Sube Singh Malik; Wg. Cdr. William G. Beddoe; Wg. Cdr. Purnachandra M. Takle (posthumous); Sqn. Ldr. Surinder Kumar Bajaj; Sqn. Ldr. Omkar Singh Wadhawan; Sqn. Ldr. K. S. Chandrasekhar; Sqn. Ldr. Sharad N. Medhekar; Sqn. Ldr. Hanwant Bir Singh; Sqn. Ldr. Keven Martin; Sqn. Ldr. Bipinchandra S. Raje; Sqn. Ldr. Surendra Nath; Sqn. Ldr. Ravindra Nath Paul; Sqn. Ldr. K. C. Cariappa; Sqn. Ldr. Ashwini K. Bhide; Sqn. Ldr. Clarence J. D'Lima; Sqn. Ldr. S. S. Rathnam; Sqn. Ldr. Barjinder K. Dhir; Sqn. Ldr. Yashpal Sharma; Sqn. Ldr. Narayana K. Sastry; Flt.-Lt. Kailash C. Parik; Flt.-Lt. Dinesh K. Dhingra; Flt.-Lt. P. R. Prasada Rao; Flt.-Lt. Harinder Pal Singh Shergill; Flt.-Lt. Suhas V. Javadekar; Flt.-Lt. Pradeep K. Tayal; Flt.-Lt. Hari Nath Chaturvedi; 28176 Master Warrant Officer Bidya Nath Banik; 400179 Master Warrant Officer Framroz J. Vania and 43569 Warrant Officer Douglas Godfrey; Bar to Vayu Sena medal has been awarded to Sqn. Ldr. Lalit K. Dutta; 11947 Master Warrant Officer K. N. Venkatachalam and 202634 Warrant Officer Koshy Thomas.

Vishisht Seva Medal : Lt.-Col. Carlton V. Donohue; Lt.-Col. Deepinder Singh; Lt.-Col. Ranjit Singh; Lt.-Col. Mohinder Singh Gill; Lt.-Col. Joginder Pal Bhalla; Lt.-Col. Sant Ram Bhatia; Cdr. Pran Nath Parashar; Cdr. Krishan Lal Chopra; Surgeon Cdr. Gopala Kuppuswamy; Surgeon Cdr. Mulk Raj Vig; Cdr. K. Geeverghese Thomas; Cdr. Narayanrao R. Rao; Cdr. J. C. Paul Leon; Cdr. Cajetan J. D'Souza; Cdr. K. George Idiculla; Cdr. Jawahar Lal Gupta; Cdr. Mohinder Nath Vasudeva; Cdr. Hector S. Karanjawala; Cdr. Mahesh C. Goel; Cdr. Radhey Shyam Sharma; Commander-at-Arms Harkishan D. Madhok; Cdr. Kunnkumar K. Lohana; Cdr. Sabyasachi Chatterjee; Cdr. Autar K. Kaul; Cdr. Daya Moy Roy;

Ravendra Kohli; Wg. Cdr. Harjendra Singh Kalsi; Wg. Cdr. Rajendra Nath Dawar; Wg. Cdr. Sultan Singh Yadav; Wg. Cdr. V. Krishnaswamy; Wg. Cdr. Amal C. Gupta; Maj. Pramod C. Joshi; Maj. S. Venkataraman; Maj. Mohinder Singh; Maj. Syed Zamir Ahmed Shah; Lieut. Cdr. O. Appakutty Nair; Lieut. Cdr. Kollerithara Suresh; Lieut. Cdr. Hamid Franklin; Lieut. Cdr. K. Narayanan Nair; Lieut. Cdr. Koottala Damodaran; Sqn. Ldr. Avinash C. Mehta; Sqn. Ldr. Mohinder Kumar Bidani; Sqn. Ldr. Krishna Bihari Singh; Sqn. Ldr. Pramod C. Joshi; Sqn. Ldr. Prem S. Sharima; Capt. Ajmer Singh; Capt. (Miss) Chandra Karumankuzhi; Lieut. Mercilla Gomes (IN); Lt. David J. Collins (IN); Flt.-Lt. Y. Rajendra Prasad; Flt.-Lt. Kashinath Anadure; Flt.-Lt. Mohammad S. Sherfuddeen; Flt.-Lt. Jagan Nath P. Bhatt; Flt.-Lt. P. R. Narayana Murthy; Flt.-Lt. Jagdish C. Verma; Flt.-Lt. Puran Chandra Singh Rautela; Flt.-Lt. Gopalakrishnan Nair; Flt.-Lt. Sati Nath Bandopadhyay; Flt.-Lt. Arunasu Datta; Flt-Lt. (Mrs.) Padma Bandopadhyay; 38763 MCPO M. Michael George; 43864 MCPO Bajan Singh; 48245 MCPO R. N. Patnaik; 37694 MWO Sirich Sandhu; 48980 MWO Shreenazar Singh Kunwar; 42596 CPO Mohinder Singh; 88125 PO Michael Kindo; 10846 WO Chengat Govindan Nambiar; 18321 WO Narayan Appa Kashid; 39002 WO Surjit Singh; 208792 WO Surajpal Singh; 300120 WO Lakshmi Kant Das; 200759 Flt. Sergeant C. X. Mathappan and 51668 SWA Jaswant Singh Yadav.

NATIONAL AWARDS TO CHILDREN

National Awards to Children for Bravery

Recipients: Bishikeshan Jena, Harihara High School, Aska, Ganjam Dist., Orissa; S. Suryanarayanan, Kumbakonam, Tamil Nadu; Lala Gangte, Imphal; Durga Manyu Gaur, Govt. Higher Secondary School, Hoshangabad; Kum. Pragna Zaveri, 69, Daryaganj, Delhi.

SAHITYA AKADEMI AWARDS 1972

Language	Title of the Book	Author	Nature of work
Assamese	*Aghari Atmar Kahim*	Syed Abdul Malik	Novel
Bengali	*Sesh Namaskar*	Santosh Kumar Ghosh	Novel
Dogri	*Phul Bina Dali*	Vats Vikal	Novel
Hindi	*Buni Huyi Rassi*	Bhawani Prasad Mishra	Poetry
Kannada	*Shoonysampadaneya Paramarshe*	S. S. Bhoosnurmath	Commentary
Kashmiri	*Suyya*	Ali Mohammed Lones	Drama
Malayalam	*Oru Desathinte Katha*	S. K. Pottekkat	Novel
Marathi	*Jevha Manus Jaga Hoto*	Godavari Parulekar	Autobiography
Oriya	*Manojdasanka Kath-O-Kahini*	Manoj Das	Short Stories
Punjabi	*Mittar Piyara*	Sant Singh Sekhon	Drama
Sindhi	*Aprajita*	Guno Samtani	Short Stories
Tamil	*Sila Nerangalil Sila Manitarkal*	T. Jayakantan	Novel
Telugu	*Sri Sri Sahityamu*	Sri Sri	Poetry

SANGEET NATAK AKADEMI AWARDS (1972)

The General Council of the Akademi has selected 12 eminent artistes for the 1972 awards. The winners are:

Music: Begum Akhtar (Hindustani Vocal), Jaganatha Rao Joshi (Hindustani Instrumental — Violin), T. Mukta (Karnatak Vocal), T. S. Nataraja Sundaram Pillai (Karnatak Instrumental — Nadaswaram), Mohd. Abdulla Tibet Baqal (Traditional music — Soofiana Kalam).

Dance: Sikkil Ramaswami Pillai (Bharatanatyam), M. Madhava Paniker (Kathakali), Kshetri Tombi Devi (Manipuri), Chinnammu Amma (Mohiniattam).

Drama: Girish Karnad (Play-writing — Kannada), Shyamanand Jalan (Direction), Hargovind (Traditional Theatre — Rasleela).

The winners will get Rs. 5,000 in cash and a 'tamrapatra' (plaque) each.

NEHRU AWARDS

Literacy: 1968 — Dr. (Mrs.) W. H. Fisher; 1969 — Mrs. Kulsum Sayani; 1971 — Mrs. Durgabai Deshmukh; 1972 — Satyen Maitra.

International Understanding: 1965 — U. Thant; 1966 — Martin Luther King; 1967 — Khan Abdul Gaffar Khan; 1968 — Yehudi Menuhin; 1969 — Mother Teresa; 1970 — Dr. Kenneth Kaunda.

KALINGA PRIZES

The prize named after the ancient Indian empire of that name, was offered as a Gift to the United Nations Education, Scientific & Cultural Organisation (UNESCO) by an Indian industrialist Mr. Biju Patnaik of Orissa. The prize carries one thousand pounds sterling in cash. It was started in 1952.

1952:—Prince Louis de Broglie, Professor of Physics, University of Paris (France).

1953:—Dr. Julian Huxley, F.R.S. (U.K.).

1954:—Waldemar Kaempffert, Science Editor of the "New York Times" (U.S.).

1955:—Dr. August Pi Sunner, Head of Physiology at the University of Caracas (Venezuela).

1956:—Prof. George Gamond of the University of Colorado (U.S.).

1957:—Bertrand Russell (U.K.).

1958:—Karl Von Frisch, German Scientist (Germany & Austria).

1959:—Jean Rostand, French Scientist (France).

1960:—Ritchi Calder (U.K.).

1961:—Arthur C. Clarke, President, Ceylon Astronomical Association.

1962:—Gerard Piel, American Science writer.
1963:—Jagjit Singh (India).
1964:—Dr. R. Warren Weaver (U.S.).
1965:—Dr. Eugene Robinowitch (France).
1966:—Paul Couderc, Astronomer & writer (France).
1967:—Professor Fred Hoyle (U.K.).
1968:—Sir Gavin de Beer (U.K.).
1970:—Miss Margaret Mead (U.S.).
1971:—Prof. Pierre Auger (France).

JNANPITH AWARDS

1965:—Mahakavi Sankara Kurup — "Odakuzhal".

1966:—Tara Shanker Bannerjee — "Ganadevata".

1967:—Dr. K. V. Puttappa—"Ramayana Darshanam"; Mr. Uma Shanker Joshi — "Nisheeth".

1968 :—Sumitranandan Pant — "Chidambaram".
1969 :—Raghupati Sahai Firaq — "Gul-e-Naghma".
1970 :—Dr. Vishwanatha Satyanarayana — "Ramayana Kalpavrikshanu".
1971 :—Bishnu Dey — "Smriti Satta Bhavishyat".
1972 :—Ramdhari Singh Dinkar — "Urvashi".

FILMFARE AWARDS

Best Picture : Do Bigha Zamin (Bimal Roy), 1953; Boot Polish (Raj Kapoor), 1954; Jagriti (S. Mukerji), 1955; Jhanak Jhanak Payal Baaje (V. Shantaram), 1956; Mother India (Mehboob), 1957; Madhumati (Bimal Roy), 1958; Sujata (Bimal Roy), 1959; Mughal-e-Azam (K. Asif), 1960; Jis Desh Men Ganga Behti Hai (Raj Kapoor), 1961; Sahib Bibi Aur Ghulam (Guru Dutt), 1962; Bandini (Bimal Roy), 1963; Dosti (Tarachand Barjatya), 1964; Himalay Ki Godmein (Shankerbhai J. Bhatt), 1965; Guide (Dev Anand), 1966; Upkar (Vishal Pictures), 1967; Brahmachari (G. P. Sippy), 1968; Aradhana (Shakti Samant), 1969; Khilona, 1970; Anand (Hrishikesh Mukherji and N. C. Sippy), 1971; Be-Imaan (Sohanlal Kanwar), 1972.

Best Director : Bimal Roy (Do Bigha Zamin), 1953; Bimal Roy (Parineeta), 1954; Bimal Roy (Biraj Bahu), 1955; V. Shantaram (Jhanak Jhanak Payal Baaje), 1956; Mehboob (Mother India), 1957; Bimal Roy (Madhumati), 1958; Bimal Roy (Sujata), 1959; Bimal Roy (Parakh), 1960; B. R. Chopra (Kanoon), 1961; Abrar Alvi (Sahib Bibi Aur Gulam), 1962; Bimal Roy (Bandini), 1963; Raj Kapoor (Sangam), 1964; Yash Chopra (Waqt), 1965; Vijay Anand (Guide), 1966; Manoj Kumar (Upkar), 1967; Ramanand Sagar (Ankhen), 1968; Yash Chopra (Ittefaq), 1969; Asit Sen (Safar), 1970; Raj Kapoor (Mera Naam Joker), 1971; Sohanlal Kanwar (Be-Imaan), 1972.

Best Actor : Dilip Kumar (Daag), 1953; Bharat Bhooshan (Shri Chaitanya Mahaprabhu), 1954; Dilip Kumar (Azaad), 1955; Dilip Kumar (Devdas), 1956; Dilip Kumar (Naya Daur), 1957; Dev Anand (Kala Pani), 1958; Raj Kapoor (Anari), 1959; Dilip Kumar (Kohinoor), 1960; Raj Kapoor (Jis Desh Men Ganga Behti Hai), 1961; Ashok Kumar (Rakhi), 1962; Sunil Dutt (Mujhe Jeene Do), 1963; Dilip Kumar (Leader), 1964; Sunil Dutt (Khandaan), 1965; Dev Anand (Guide), 1966; Dilip Kumar (Ram Aur Shyam), 1967; Shammi Kapoor (Brahmachari), 1968; Ashok Kumar (Aashirwad), 1969; Rajesh Khanna (Sachha Jutha), 1970; Rajesh Khanna (Anand), 1971; Manoj Kumar (Be-Imaan), 1972.

Best Actress : Meena Kumari (Baiju Bawra), 1953; Meena Kumari (Parineeta), 1954; Kamini Kaushal (Biraj Bahu), 1955; Nutan (Seema), 1956; Nargis (Mother India), 1957; Vyjayanthimala (Sadhna), 1958; Nutan (Sujata), 1959; Bina Rai (Ghunghat), 1960; Vyjayanthimala (Gunga-Jumna), 1961; Meena Kumari (Sahib Bibi Aur Ghulam), 1962; Nutan, (Bandini), 1963; Vyjayanthimala (Sangam), 1964; Meena Kumari (Kaajal), 1965; Waheeda Rehman (Guide), 1966; Nutan (Milan), 1967; Waheeda Rehman (Neel Kamal), 1968; Sharmila Tagore (Aradhana), 1969; Mumtaz (Khilona), 1970; Asha Parekh (Kati Patang) 1971; Hema Malini (Seeta Aur Geeta) 1972.

Best Supporting Actor : David (Boot Polish), 1954; Abhi Bhattacharya (Jagriti), 1955; Motilal (Devdas), 1956; Raj Mehra (Sharada), 1957; Johnny Walker (Madhumati), 1958; Man Mohan Krishna (Dhool Ka Phool), 1959; Motilal (Parakh), 1960; Nana Palsikar (Kanoon), 1961; Mehmood (Dil Tera Deewana), 1962; Raj Kumar (Dil Ek Mandir), 1963; Nana Palsikar (Shehar Aur Sapna), 1964; Raaj Kumar (Waqt), 1965; Ashok Kumar (Afsana), 1966; Pran (Upkar), 1967; Sanjeev Kumar (Shikar), 1968; Pran (Ansoo Ban Gaye Phool), 1969; Feroz Khan (Aadmi Aur Insaan), 1970; Amitabh Bachchan (Anand) 1971; Pran (Be-Imaan) 1972.

Best Supporting Actress : Usha Kiron (Baadbaan), 1954; Nirupa Roy (Munimji), 1955; Vyjayanthimala (Devdas), 1956; Shyama (Sharada), 1957; Nalini Jaywant (Kala Pani), 1958; Lalita Pawar (Anari), 1959; Nanda (Aanchal), 1960; Nirupa Roy (Chhaya), 1961; Shashikala (Aarti), 1962; Shashikala (Gumrah), 1963; Nirupa Roy (Shehnai), 1964; Padmini (Kaajal), 1965; Simi (Do Badan), 1966; Jamuna (Milan), 1967; Simi (Saathi), 1968; Tanuja (Paisa Ya Pyar), 1969; Chand Usmani (Pehchan), 1970; Farida Jalal (Paras), 1971; Zeenat Amman (Hare Rama Hare Krishna) 1972.

Best Comedian : Mehmood, (Pyar Kiye Jaa), 1966; Om Prakash (Dus Lakh), 1967; Johnny Walker (Shikar), 1968; Mehmood (Waris), 1969; I. S. Johar (Johnny Mera Naam), 1970; Not awarded, 1971; Not awarded, 1972.

Best Story Writer : Pt. Mukhram Sharma, (Aulad), 1954; Pt. Mukhram Sharma (Vachan), 1955; Amiya Chakrabarty (Seema), 1956; Akhtar Mirza (Naya Daur), 1957; Pt. Mukhram Sharma (Sadhna), 1958; Subodh Ghosh (Sujata), 1959; Ruby Sen (Masoom), 1960; Shridhar (Nazrana), 1961; K. P. Kottarakkara (Rakhi), 1962; Jarasandha (Bandini), 1963; Ban Bhatt (Dosti), 1964; Akhtar Mirza (Waqt), 1965; R. K. Narayan (Guide), 1966; Manoj Kumar (Upkar), 1967; Sachin Bhaumick (Brahmachari), 1968; V. S. Kanetkar (Ansoo Ban Gaye Phool), 1969; Chandrakant Kokodkar (Do Raaste), 1970; Hrishikesh Mukerji (Anand), 1971; Basu Bhattacharya (Anubhav) 1972.

Best Music Director : Naushad (Baiju Bawra), 1953; S. D. Burman (Taxi Driver), 1954; Hemant Kumar (Nagin), 1955; Shanker-Jaikishen (Chori Chori), 1956; O. P. Nayyar (Naya Daur), 1957; Salil Choudhury (Madhumati), 1958; Shanker-Jaikishen (Anari), 1959; Shanker-Jaikishen (Dil Apna Aur Preet Parai), 1960; Ravi (Gharana), 1961; Shanker-Jaikishen (Professor), 1962; Roshan (Taj Mahal), 1963; Laxmikant-Pyarelal (Dosti), 1964; Ravi (Khandaan), 1965; Shanker-Jaikishen (Suraj), 1966; Laxmikant-Pyarelal (Milan), 1967; Shanker-Jaikishen (Brahmachari), 1968; Laxmikant-Pyarelal (Jeene Ki Raah), 1969; Shanker-Jaikishen (Pehchan), 1970; Shankar-Jaikishan (Mera Nam Joker), 1971; Shanker-Jaikishan (Be-Imaan), 1972.

Best Photographer (Black & White): Tara Dutt (Boot Polish), 1954; Dwarka Divecha (Yasmin), 1955; Radhu Karmakar (Shree 420), 1956; Faredoon Irani (Mother India), 1957; Dilip Gupta (Madhumati), 1958; V. K. Murthy (Kaagaz Ke Phool), 1959; R. D. Mathur (Mughal-e-Azam), 1960; V. Babasaheb (Ganga-Jumna), 1961; V. K. Murthy (Sahib Bibi Aur Ghulam), 1962; Kamal Bose, (Bandini), 1963; K. H. Kapadia (Woh Kaun Thi), 1964; Ramchandra (Yaadein), 1965; Jaywant Pathare, (Anupama), 1966; Jal Mistry (Baharon Ke Sapne), 1967; Nariman A. Irani (Saraswatichandra), 1968; Kamal Bose (Anokhi Raat), 1969; Kamal Bose (Khamoshi), 1970; Kamal Bose (Dastak), 1971.

Best Photographer (Colour) : Krishnarao Vashirde (Sehra), 1963; Krishnarao Vashirde (Geet Gaya Pattharon Ne), 1964; Dharam Chopra (Waqt), 1965; Fali Mistry (Guide), 1966; M. N. Malhotra (Hamraaz), 1967; G. Singh (Ankhen), 1968; Faredoon Irani (Duniya), 1969; Jal Mistry (Heer Ranjha), 1970; Radhu Karmakar (Mera Naam Joker), 1971; P. Vaikunth (Seeta Aur Geeta), 1972.

Best Sound Recordist : Ishan Ghosh (Jeevan Jyoti), 1954; R. Kaushik (Amar), 1955; A. K. Parmar (Jhanak Jhanak Payal Baaje), 1956; R. Kaushik (Mother India), 1957; Ishan Ghosh (Chandan), 1958; A. K. Parmar (Navrang), 1959; George D'Cruz (Parakh), 1960; Kuldeep Singh (Junglee), 1961; S. Y. Pathak (Bees Saal Baad), 1962; Dinshaw Billimoria (Bandini), 1963; Allauddin (Sangam), 1964; Essa M. Suratwala (Yaadein), 1965; Manohar Amberkar (Mera Saaya), 1966; J. M. Barot (Jewel Thief), 1967; P. Thakkersey (Shikar), 1968; M. A. Shaikh (Ittefaq), 1969; S. C. Bhambri (Talash), 1970; Allauddin (Mera Naam Joker), 1971; Jehangir Nowroji (Amar Prem), 1972.

Best Art Director (Black & White) : Rusi Banker (Mirza Ghalib), 1955; Kanu Desai (Jhanak Jhanak Payal Baaje), 1956; M. R. Acharekar (Pardesi), 1957; Sudhendu Roy (Madhumati), 1958; M. R. Acharekar (Kaagaz Ke Phool), 1959; Biren Naug (Chaudhvin Ka Chand), 1960; M. R. Acharekar (Jis Desh Men Ganga Behti Hai), 1961; D. R. Jadhav and Ram Yedekar (Son of India), 1962; Sudhendu Roy, (Mere Mehboob), 1963; G. L. Jadhav & T. K. Desai (Kohraa), 1964; M. S. Sathyu, (Haqeeqat), 1965; Sant Singh (Yeh Raat Phir Na Aayegi), 1966; H. V. Maharudria (Taqdeer), 1967; Ajit Banerjee (Majhli Didi), 1968; Ajit Banerjee (Anokhi Raat), 1969; Not awarded, as none of the nominated pictures was considered as of a standard fit for an award, 1970 & 1971.

Best Art Director (Colour) : Sant Singh (Jahan Ara), 1964; S. S. Samel (Gumnaam), 1965; Shanti Das (Phool Aur Patthar), 1966; Abdul Rahim (Chandan Ka Palna), 1967; A. A. Majid (Noor Jehan), 1968; A. R. Kakkad & Baburao T. Poddar (Tamanna), 1969; Shanti Das (Talash), 1970; Bansi Chandragupta (Seema), 1971; N. B. Kulkarni (Pakeezah) 1972.

Best Editor : Hrishikesh Mukherjee (Naukri), 1955; G. G. Mayekar (Shree 420), 1956; Shivaji Awdhut, (Sharada), 1957; Hrishikesh Mukherjee (Madhumati), 1958; Chintaman Borkar (Navrang), 1959; Moosa Mansoor (Kohinoor), 1960; G. G. Mayekar (Jis Desh Men Ganga Behti Hai), 1961; Keshav Nanda (Bees Saal Baad), 1962; Pran Mehra (Gumrah), 1963; Raj Kapoor (Sangam), 1964; Pratap Dave, (Himalay Ki Godmein), 1965; Vasant Borkar (Phool Aur Patthar), 1966; B. S. Glaad (Upkar), 1967; N. M. Shankar (Saathi), 1968; Balbir S. Glaad (Nanna Farishta), 1969; Vijay Anand (Johnny Mera Naam), 1970 and Not awarded, 1971; Manoj Kumar (Shor), 1972.

Best Lyricist : Shailendra (Yahudi), 1958; Shailendra (Anari), 1959; Shakeel Badayuni (Chaudhvin Ka Chand), 1960; Shakeel Badayuni (Gharana), 1961; Shakeel Badayuni (Bees Saal Baad), 1962; Sahir Ludhianvi (Taj Mahal), 1963; Majrooh Sultanpuri (Dosti), 1964; Rajendra Krishna (Khandaan), 1965; Hasrat Jaipuri, (Suraj), 1966; Gulshan Bawra (Upkar), 1967; Shailendra (Brahmachari), 1968; Neeraj (Chanda Aur Bijli), 1969; Verma Malik (Pehchan), 1970; Hazrat Jaipuri (Andaz), 1971; Verma Malik (Be-imaan), 1972.

Best Playback Singer : Lata Mangeshkar (Madhumati), 1958; Mukesh (Anari), 1959; Mohammed Rafi (Chaudhvin Ka Chand), 1960; Mohammed Rafi (Sasural), 1961; Lata Mangeshkar (Bees Saal Baad), 1962; Mahendra Kapoor (Gumrah), 1963; Mohammed Rafi (Dosti), 1964; Lata Mangeshkar, 1965; Mohammed Rafi (Suraj), 1966; Mahendra Kapoor (Hamraaz), Asha Bhosle, (Dus Lakh); 1967; Mohammed Rafi, (Brahmachari), Asha Bhosle (Shikar), 1968; Kishore Kumar (Aradhana), Lata Mangeshkar (Jeene Ki Raah), 1969; Mukesh (Pehchan), Sharada (Jahan Pyar Miley), 1970; Manna Dey (Mera Naam Joker), Asha Bhosle (Caravan), 1971; Mukesh (Be-Imaan) and Asha Bhosle (Hare Rama Hare Krishna), 1972.

Best Dialogue Writer : Rajinder Singh Bedi (Madhumati), 1958; Ramanand Sagar (Paigham), 1959; Aman, Kamal Amrohi, Wajahat Mirza, Ehsan Rizvi (Mughal-e-Azam), 1960; Wajahat Mirza (Gunga-Jumna), 1961; Akhtar-ul-Iman (Dharmputra), 1962; Arjun Dev Rashk (Dil Ek Mandir), 1963; Govind Moonis (Dosti), 1964; Akhtar-ul Iman (Waqt), 1965; Vijay Anand (Guide), 1966; Manoj Kumar (Upkar), 1967; Ali Raza (Saraswatichandra), 1968; Pandit Anand Kumar (*Anokhi* Raat), 1969; Rajinder Singh Bedi, (Satyakam), 1970; Gulzar (Anand), 1971; Ramesh Pant (Amar Prem), 1972.

Best Screen Play Writer : Nabendu Ghosh (Majhli Didi), 1968; Hrishikesh Mukerjee, (Anokhi Raat), 1969; Vijay Anand (Johny Mera Naam), 1970; Basu Chatterji (Sara Akash), 1971; Arvind Mukherjee (Amar Prem), 1972.

Special Awards : Jaya Bhaduri (for outstanding performance in Uphaar) and Prithviraj Kapoor (for outstanding contribution to the stage and screen), 1971; V. Shantaram for outstanding contribution to film industry, 1972. Special Citation for "Anubhav", 1972.

Best Documentary Film: Nine Months to Freedom (S. Sukhdev), 1972.

The Panel of Judges selected "The Inner Eye" (directed by Satyajit Ray), "Yes, Its On" (directed by S. N. S. Sastry) and "Notes on the Green Revolution (directed by Shyam Benegal) for Special Mention.

Regional Film Awards :

Best Bengali Film: Mem Saheb (Ashima Bhattacharjee), 1972.

Best Marathi Film: Kunku Mazhe Bhagyache (Shamrao Mane), 1972.

Kannada

Best Director : Girish Karnad (Vamsha Vrikaha), 1972.
Best Picture : Vamsha Vriksha, 1972.
Best Actor : Venkata Rao Talegiri, 1972.
Best Actress : Kalpana (Yavjanmatha Maitri), 1972.

Tamil

Best Actress : Jayalalitha (Pattikada Pattanama), 1972.
Best Actor : Shivaji Ganesan (Gnana Oli), 1972.
Best Picture : Pattikada Pattanama, 1972.
Best Director : P. Madhavan (Gnana Oli), 1972.

Malayalam

Best Picture : Chemparathy, 1972.
Best Director : K. S. Sethumadhavan (Punarjanmam), 1972.
Best Actor : Madhu (Swayamvaram), 1972.
Best Actress : Shobhana (Chemparathy), 1972.

Telugu

Best Actress : Jayalakshmi (Sri Krishna Sathya), 1972.
Best Picture : Pandanthi Kapuram, 1972.
Best Director : Late K. V. Reddy (Sri Krishna Sathya), 1972.
Best Actor : N. T. Rama Rao (Badi Panthulu), 1972.
Special Commendation : Jamuna (Pandanthi Kapuram), 1972.

NOBEL PRIZE AWARDS

Physics : W. C. Roentgan (G) (1901); H. A. Lorentz (D), P. Zeeman (D) (1902); H. Bequerel (F), P. Curie (F), Marie Curie (F) (1903); Lord J. W. S. Rayleigh (B) (1904); P. Lenard (G) (1905); J. J. Thomson (B) (1906); A. A. Michelson (A) (1907); G. Lippmann (I) (1908); F. Braun (G), G. Marconi (I) (1909); J. D. Van der Waals (D) (1910); W. Wien (G) (1911); G. Dalen (S) (1912); H. Kamerlingh Onnes (D) (1913); M. V. Laue (G) (1914); W. H. Bragg (B), W. L. Bragg (B) (1915); — (1916); C. G. Barkia (B) (1917); M. Planck (G) (1918); J. Stark (G) (1919); C. E. Guillaume (F) (1920); A. Einstein (G) (1921); N. Bohr (Da) (1922); R. A. Millikan (A) (1923); M. Seegbahn (S) (1924); J. Franck (G), G. Hertz (G) (1925); J. Perrin (J) (1926); A. H. Compton (A), C. T. R. Wilson (B) (1927); O. W. Richardson (B) (1928); L. de Broglie (F) (1929); C. V. Raman (In.) (1930); — (1931); W. Heisenberg (G) (1932); P. A. M. Dirac (B), E. Schroedinger (Au) (1933); — (1934); J. Chadwick (B) (1935); V. F. Hess (Au), C. D. Anderson (A) (1936); C. J. Davisson (A), G. P. Thomson (B) (1937); E. Fermi (I) (1938); E. O. Lawrence (A) (1939); 1940 to 1942 (no awards); O. Stern (A) (1943); I. I. Rabi (A) (1944); W. Pauli (Au) (1945); P. W. Bridgman (A) (1946); Sir Edward Appleton (B) (1947); P. M. S. Blackett (B) (1948); H. Yukawa (J) (1949); Cecil F. Powell (B) (1950); Sir J. Cockcroft (B), E. T. S. Walton (In) (1951); E. Purcell (A), P. Bloch (A) (1952); F. Zernike (D) (1953); M. Born (B), W. Bothe (G) (1954); W. E. Lamb (A), P. Kusch (A) (1955); W. Shockley (A), J. Bardeen (A), W. H. Brattain (A) (1956); T. Dao-ee (Chi), C. Ning Yang (Chi) (1957); P. A. Cerenkov (R), I. M. Frank (R), I. Tamm (R) (1958); E. Segre (A), O. Chamberlain (A) (1959); D. A. Glasser (A) (1960); R. Hofstadtar (A), R. Mossbauer (G) 1961); L. Davidovich Landau (R) (1962); Engene P. Wigner, Maria Geoppoert Mayer, Hans D. Jensen (1963); Charles Towns, Nikolai Basov, Alexander Prochorov (1964); Julian Schwingar, Richard Feynman, Shinichero Tomonaga (1965); Alfred Kastler (1966); Hans Albert Bethe (A) (1967); Louis W. Alvarez (A) (1968); Prof. Murray Gell-Mann (A) (1969); Prof. Manlouis Neel (F), Prof. Hannes Alfven (Sw) (1970); Dr. Dennis Gabor (B) (1971); Prof. John Bardeen (A), Prof. John Schrieffer (A), Prof. Leon Cooper (A) (1972).

Chemistry : J. H. Van't Hoff (D) (1901); E. Fischer (G) (1902); S. Arhenius (S) (1903); W. Ramsay (B) (1904); A. V. Baeyer (G) (1905); H. Moissan (F) (1906); E. Buchner (G) (1907); E. Rutherford (B) (1908); V. Ostwald (G) (1909); O. Wallach (G) (1910); Marie Courie (F) (1911); V. Grignard (F), P. Sabatier (F) (1912); A. Werner (Sw) (1913); T. W. Richards (A) (1914); R. Willstaetter (G) (1915); — (1916); — (1917); F. Haber (G) (1918); — (1919); W. Nernst (G) (1920); F. Soddy (B) (1921); F. W. Aston (B) (1922); F. Pregi (Au) (1923); — (1924); R. Zsigmondy (G) (1925); T. Svedberg (S) (1926); H. Wieland (G) (1927); A. Windaus (1928); H. V. Eueler-Chelpin (S), A. Harden (B) (1929); H. Fischer (G) (1930); P. Bergins (G), K. Bosch (G) (1931); I. Langmuir (A) (1932); — (1933); H. C. Urey (A) (1934); F. Joliot-Curie (I), I. Joliot Curie (I) (1935; P. Debye (D) 1936); W. N. Haworth (B), P. Karrer (Sw) (1937); R. Kuhn (G) (1938); A. P. Butenandt (G), L. Ruzicka (Sw) (1939); 1940 to 1942 (no awards), G. Hevsey (H) (1943); O. Hahn (G) (1944); A. Virtanen (Fi) (1945); J. B. Sumner (A), J. H. Northrop (A), W. M. Stanley (A) (1946); Sir Robert Robinson (B) (1947); A. Tiselius (S) (1948); W. F. Giauque (A) (1949); Otto Diels (G), K. Alder (G) (1950); E. M. MacMillan (A), G. T. Seaborg (A) (1951); A. J. P. Martin (B), R. L. M. Synge (B) (1952); H. Staudinger (G) (1953); L. Pauling (A) (1954); Vincent du Vigneaud (A) (1955); Sir Cyril Hinshelwood (B), N. Semonov (R) (1956); Sir Alexander Todd (B) (1957); F. Sanger (B) (1958); J. Heyrovsky (Cz) (1959); W. F. Libby (A) (1960); M. Calvin (1961); M. F. Perutz (B), J. C. Kendreu (B) (1962); Prof. Karl Ziegler, Guilio Natta (I) (1963); Dorothy Crow Hodgkin (1964); Robert Burns Woodward (1965); Robert S. Mulliken (1966); Manfred Eigen (G), Ronald G. W. Norrish (B), George Porter (B) (1967); Lars Onsager (A) (1968); D. H. Barton (B), O. Hassal (N) (1969); Prof. Luis Leloir (Ar) (1970); Dr. Gerhard Herzberg (C) (1971); Dr. Christian B. Anfinsen (A), Dr. Stanford Moore (A), Dr. William H. Stein (A), (1972).

Physiology & Medicine : E. V. Behring (G) (1901); R. Ross (B) (1902); N. R. Finsen (Da) 1903); I. P. Pavlov (R) (1904); R. Koch (G) (1905); C. Golgi (I), S. R. Y. Cajal (Sp) (1906); C. L. A. Laveran (F) (1907); P. Ehrlich (G), E. Metchnikoff (R) (1908); T. Kocher (Sw) (1909); A. Kossel (G) (1910); A. Gullstrand (S) (1911); A. Carrel (A) (1912); C. Richet (F) (1913); R. Barany (Au) (1914); — (1915); — (1916); — (1917); — (1918); J. Bordet (Be) (1919); A. Krogh (Da) (1920); — (1921); A. Hill (B), O. Meyerhof (G) (1922); F. G. Banting (C), J. R. Macleod (C) (1923); W. E. Einthoven (D) (1924); — (1925); J. Fibiger (Da) (1926); J. Wagner-Jauregg (Au) (1927); C. Nicolle (F) (1928); C. Eijkman (D), F. G. Hopkins (B) (1929); K. Landsteiner (Au) (1930); O. Warburg (G) (1931); C. S. Sherrington (B), E. D. Adrian (B) (1932); T. H. Morgan (A) (1933); G. Minot (A), W. Murphy (A), G. Whipple (A) (1934); H. Spemann (G) (1935); Sir H. H. Dale (B), O. Loewi (G) (1936); A. V. Szent-Gyorgyl (H) (1937); C. Heymans (Be) (1938); G. Domagk (G) (1939); 1940 to 1942 (no awards); H. Dam (Da), F. A. Doisy (A) (1943); E. J. Erianger (A), H. S. Gasser (A) (1944); Sir A. Fleming (B), Sir H. Florey (B), E. B. Chain (B) (1945); H. J. Muller (A) (1946); B. A. Houssay (Ar), C. F. Cori (A), G. T. Cori (A) (1947); P. Muller (Sw) (1948); W. R. Hess (Sw), A. F. Moniz (Po) (1949); E. C. Kendall (A), P. S. Hench (A), R. Reichstein (Sw) (1950); M. Theiler (A) (1951); S. Waksman (A) (1952); H. A. Krebs (B), F. A. Lipmann (A) (1953); J. F. Enders (A), F. C. Robins (A), T. H. Weller (A) (1954); Hugo Theorell (S) (1955); A. F. Cournaud (A), D. W. Richards (A), W. Forssmann (G) (1956); D. Bovet (I) (1957); G. W. Beadle (A), E. L. Tatum (A), J. Lederberg (A) (1958); S. Ochoa (A), A. Kornberg (A) (1959); P. B. Medawar (B), Sir M. Burnet (Aus) (1960); F. H. C. Crick (B), M. H. F. Wilkins (B), J. D. Watson (A) (1962); G. von Brekesy (H) (1961); Sir John Carew Eccles, Allan Lloyd Hodgkin, Andrew Fielding Huxley (1963); Konard Bloch, Feodor Lynen (1964); Jacques Monod, Francois Jacob, Andra Lwoff (1965); Peyton Rous, Charles B. Huggins (1966); Haldan Keffer Hartline (A), George Wald (A). Ragnar Granit (Swe) (1967); Robert W. Holley, H. Gobind Khorana, Marshall W. Nirenberg (all U.S.A.) (1968); Dr. Max Delbrueck, Dr. Alfred Hershey, Dr. Salvador Luria (All American) (1969); Sir Bernar Katz (B); Dr. Ulfvon Euler (Sw), Dr. Julius Axelord (A) (1970); Dr. Earl Wilbur Sutherland (A) (1971); Dr. G. M. Edelman (A), Dr. R. Porter (B) (1972).

Literature : B. F. A. Sully Prudhomme (F) (1901); T. Mommsen (G) (1902); B. Bjornson (N) (1903); F. Mistral (F), Echegaray (Sp) (1904); H. Sieukiewic (P) (1905); G. Carducci (I) (1906); Rudyard Kipling (B) (1907); R. Eucken (G) (1908); S. Lageriof (S) (1909); P. Heyse (G) (1910); N. Maeterlinck (Be) (1911); G. Hauptmann (G) (1912); R. Tagore (In) (1913); — (1914); R. Rolland (F) (1915); V. Von Heidenstam (S) (1916); K. Gjellerup (Da), H. Pontoppidan (Da) (1917); — (1918); C. Spitteler (Sw) (1919); K. Hamsum (N) (1920); A. France (I) (1921); J. Benavente (Sp) (1922); W. B.

Yeats (Ir) (1923); W. Reymont (P) (1924); G. B. Shaw (B) (1925); G. Deledda (I) (1926); H. Bergson (F) (1927); S. Undset (N) (1928); T. Mann (G) (1929); S. Lewis (A) (1930); E. A. Karifeldt (S) (1931); J. Galsworthy (B) (1932); Bunin (R) (1933); L. Pirandello (I) (1934); — (1935); E. O'Neill (A) (1936); R. Martin du Gard (F) (1937); Pearl S. Buck (A) (1938); F. E. Sillanpaa (Fi) (1939); 1940 to 1942 (no awards); — (1943); J. V. Jensen (Da) (1944); G. Mistral (1945); H. Hesse (Sw) (1946); Andre Gide (F) (1947); T. S. Fliot (B) (1948); W. Faulkner (A) (1949); Lord Russel (B) (1950); P. Lageirkvist (S) (1951); F. Maurisac (F) (1952); Sir W. S. Churchill (B) (1953); E. Hemingway (A) (1954); Halldor Laxness (Ic) (1955); J. Ramon Jimenez (Sp) (1956); A. Camus (F) (1957); B. Pasternak (R) (1958); S. Quasimode (I) (1959); A. St. Leger (F) (1960); J. Steinbeck (A) (1961); I. Andric (Y), J. Steinbeck (A) (1962); Giorgos Stylia nos Sefariads (1963); — (1964); Mikhail Sholokhov (1965); Samuel Joseph Agnon, Miss Nelly Sachs (1966); Miguel Angel Austurias (Great) (1967); Yasunari Kawabata (J) (1968); Samuel Becket (Ir) (1969); Alexander Sozhenitsyn (R) (1970); Pablo Neruda (Ch) (1971); Heinrich Boell (G) (1972).

Peace : H. Dunant (Sw), F. Passy (F) (1901); E. Ducommun (Sw), A. Gobat (Sw) (1902); Sir W. R. Cremer (B) (1903); Institut de Droit International (1904); Bertha von Suttner (Au) (1905); T. Roosevelt (A) (1906); E. T. Moneta (I), L. Renault (F) (1907); K. P. Arnoldson (S), P. Bajer (Da) (1908); A. M. F. Beernaert (Be), Baron de Estournelles de Constant de Rebecque (F) (1909); The Bureau International Permanent De la Paix, Berne (1910); T. M. C. Asser (D), A. H. Fried (Au) (1911); E. Root (A) (1912); H. La Fontaine (Be) (1913); — (1914); — (1915); — (1916); Comite International de la Croix Rouge, Geneva (1917); — (1918); W. Wilson (A) (1919); L. Bourgeois (F) (1920); K. H. Branting (S), C. L. Lange (N) (1921); F. Nansen (N) (1922); — (1923); — (1924); Sir A. Chamberlain (B), C. G. Dawes (A) (1925); A. Briand (F), G. Stresemann (G) (1926); F. Buisson (F), L. Quidde (G) (1927); — (1928); F. B. Kellogg (A) (1929); L. O. J. Soderblom (S) (1930); Jane Addams (A), N. M. Butler (A) (1931); — (1932); Sir Norman Angell (B) (1933); Arthur Henderson (B) (1934); C. von Ossietzky(G) (1935); C. de S. Lamas (Ar) (1936); Viscount Cecil of Chilwood (B) (1937); Office International Nansenpour les Refugies (1938); — (1939); 1940 to 1942 (no awards); — (1943); Comite International de la Croix Rouge, Geneva (1944); Cordell Hull (A) (1945); Emily G. Balch (A), J. R. Mott (A) (1946); American & British Quaker Organisations (1947); — (1948); Lord Boyd-Orr (B) (1949); Ralf Bunche (A)(1950); Leon Jouhaux(F)(1951); A. Schweitzer(F)(1952); Gen. G. Marshall (A) (1953); U.N. High Commission for Refugees (1954); — (1955); — (1956); L. B. Pearson (C) (1957); Father George Pire (Be) (1958); P. J. Noel-Baker (B) (1959); A. Luthuli (S.A.) (1960); D. Hammarskjold (S) (1961); L. C. Pauling (A) (1962); International Red Cross and League of Red Cross Societies (1963); Martin Luther King (1964); UNICEF (1965); — 1966); — 1967); Bene Cassin (Fr) (1968); International Labour Organisation (1969); Norman Earnest Borlaug (A) (1970); Willy Brandt (W.G.) (1971).

Economics : Prof. Jan Tinbergen (Dutch) (1969); Prof. Paul A. Samulson (A) (1970); Dr. Simon Kuznets (U.S.A.) (1971); Prof. John R. Hicks (B), Prof. Kenneth J. Arrow (A) (1972).

15th NATIONAL AWARDS FOR EXCELLENCE IN PRINTING AND DESIGNING

Instituted by the Union Ministry of Information and Broadcasting in 1955 they are given each year for best Printing and Designing.

Children's Books :

First Prize : nil; *Second Prize :* Children's Book Trust, New Delhi; *Certificates of Merit :* (a) Sekar Litho Works, Sivakasi; (b) Special Printing Press, Amritsar; (c) United India Press, New Delhi.

Art Books :

First Prize : Nil; *Second Prize :* Vakil & Sons Pvt. Ltd., Bombay; *Certificates of Merit :* (a) Government Central Press, Bombay; (b) Vakil & Sons Pvt. Ltd., Bombay.

Books : (English and other Foreign Languages)

First-Prize : Sri Aurobindo Ashram, Pondicherry; *Second Prize :* (a) Thomson Press (India) Ltd., Faridabad; (b) Thomson Press (India) Ltd., Faridabad; *Certificate of Merit :* (a) Leaders Press Pvt. Ltd., Bombay; (b) National Institute of Design, Ahmedabad.

Books : (Indian Languages)

First Prize : Sree Saraswaty Press Ltd., Calcutta; *Second Prize :* Manipal Power Press, Manipal; *Certificate of Merit :* The Mangalore Press, Mangalore.

Daily Newspapers : (English)

First Prize : Nil; *Second Prize :* The Indian Express Newspapers (Bombay) Pvt. Ltd., Bombay; *Certificate of Merit :* The Statesman Ltd., New Delhi.

Daily Newspapers : (Indian Languages)

First Prize : Udyavani (Kannada); *Second Prize :* Maharashtra Times (Marathi); *Certificates of Merit :* (a) Punjab Kesari (Hindi); (b) Hind Samachar (Urdu).

Display Advertisement Layouts :

First Prize : (a) Mass Communication & Marketing Pvt. Ltd., Bombay; (b) Hindustan Thompson Associates Ltd., Bombay; *Second Prize :* IAM Advertising Pvt. Ltd., Calcutta; *Certificate of Merit :* Mass Communication & Marketing Pvt. Ltd., Bombay.

Art Magazines :

First Prize : Roopa-Lekha; *Second Prize :* Lalit Kala *Certificate of Merit :* Lalit Kala Contemporary.

Periodicals : (Other than Annuals English)

First Prize : Pulse; *Second Prize :* (a) Therapeutic Notes Illustrated; (b) Indian Cashew Journal; *Certificate of Merit :* (a) Yogakshema; (b) Femina.

Periodicals : (Other than annual Indian)

First Prize : (a) Navaneet (Marathi); (b) ACC Parwar (Hindi); *Second Prize :* (a) Kadambini (Hindi); (b) Velanmai Valam (Tamil); *Certificates of Merit :* (a) Sarika (Hindi); (b) Dharmayug (Hindi); (c) Ajkal (Hindi); (d) Satyakatha (Marathi).

Posters :

First Prize : Bata Poster; *Second Prize :* Air India Poster — The Krishna Legend; *Certificate of Merit :* (a) Navy Day Poster 1970; (b) "It Is Not Right to Resort to Violence", — Rabindranath Tagore; (c) Gour — The Ancient Glory of Bengal; (d) Voltas (International Tractor) metal poster.

Folders : (Offset Photogravure)

First Prize : Breakfast Menu Card — Ashoka Hotel; *Second Prize :* (a) Vidaybir — M. Syrup — Abbot Laboratories; (b) Simplex 'sona' Terene/Cotton saris; *Certificates of Merit :* (a) Inde-Varanasi; (b) L'Unique Manicre de draper un saree; (c) 3-Cheers — Rampur Distillery.

A — American; Aus — Australian; C — Canadian; D — Dutch; G — German; In — Indian; P — Polish; S.A. — South African; Ar — Argentine; B — British; Ch — Chilean; Da — Danish; H — Hungarian; Ir — Irish; Po — Portuguese; Sp. — Spanish; Au — Austrian; Be — Belgian; Chi — Chinese; F — French; I — Italian; J — Japanese; R — Russian; Sw — Swiss; Cz — Czech; Fi — Finnish; Ic — Icelandic; N — Norwegian; S — Swedish; Y — Yugoslav.

Folders : (Letterpress)

First Prize : India (Eastern Region); *Second Prize :* (a) Classical Sanskrit Love — Vakils; (b) Double-Duty Drug — Smith, Kline & French; (c) Peacock Menu Card —Ashoka Hotel; *Certificate of Merit :* Promise of the Pines — Camphor & Allied Products.

Calendars : (Offset/Photogravure)

First Prize : (a) Steel Impressions — Hindustan Steel 1971; (b) G.K.W. Calendar 1971; *Second Prize :* Voltas Calendar 1971; *Certificate of Merit :* Woman — Incomex Enterprises 1971.

Calendars : (Letterpress)

First Prize : Nil; *Second Prize :* Janata Book Manufacturing Dept., Bombay; *Certificate of Merit :* Bhor Industries Pvt. Ltd.

Diaries :

First Prize : India '71 — Tourism Develop. Corpn.; *Second Prize :* Kesoram 1971 — Kesoram Ind.; *Certificates of Merit :* (a) India 1971 — DAVP; (b) Diary 1971 — India Tobacco.

Devanagari Type Faces :

First Prize : 12 pt. "Netur" — Bharat Type Foundry, Pune; *Second Prize :* 32 pt. "Vikram" — Bharat Type Foundary; *Certificate of Merit :* Nil.

Publicity Booklets, Annuals & Souvenirs : (Offset/ Photogravure)

First Prize : (a) Introducing the World to the World Booklet — Mulchandani Ind.; (b) State Trading Corpn. of India Ltd.; *Second Prize :* (a) State Trading Corpn. of India; (b) Annual Report & Accounts 1969–70 — Gwalior Rayon; *Certificates of Merit :* (a) Performance Budget 1970–71 — STC; (b) Joseph Allen Stein & Associate.

Publicity Booklets, Annuals & Souvenirs : (Letterpress) :

First Prize : Ford Foundation Bldg., New Delhi; *Second Prize :* (a) The Tourists Glimpse of Mysore; (b) The Beginning of Cough? — Ethnor Ltd.; *Certificate of Merit :* (a) Keep Your Date — DAVP; (b) Mudran Vidya Annual 1970 — Inst. of Prtg. Tech.; (c) Colorscope — Alkali & Chemical Corpn.; (d) Handicrafts of Gujarat — DAVP.

Labels :

First Prize : Ricory Instant — Food Specialities Ltd.; *Second Prize :* Nil; *Certificate of Merit :* Nil.

Best Bound Books :

First Prize : (a) Tulanuah Mohinddin, Calcutta; (b) Sri Aurobindo Ashram Press; *Second Prize :* Swapna Printing & Binding Works, Calcutta; *Certificate of Merit :* Thomson Press Ltd.

Packaging :

First Prize : Zenith Tin Works Pvt. Ltd., Bombay; *Second Prize :* (a) Zenith Tin Works Pvt. Ltd., Bombay; (b) India Tobacco Co. Ltd., Madras; *Certificates of Merit :* (a) Zenith Tin Works Pvt. Ltd.; (b) Naba Mudran Pvt. Ltd.; *Special Prize :* Grafika, Bombay.

Point of Sales : (Counter & Display Material)

First Prize : (a) Selprint, Bombay; (b) Printwell, Bombay; *Second Prize :* Lalchand Ray & Co. Pvt. Ltd., Calcutta; *Certificate of Merit :* Printwell, Bombay.

Greeting Cards :

First Prize : Shuchi Pvt. Ltd., New Delhi; *Second Prize :* Manipal Power Press, Manipal; *Certificate of Merit :* (a) Vakil & Sons, Bombay; (b) Dolton Printers, Bombay; (c) Thacker & Co. Ltd., Bombay.

Picture Post Cards :

First Prize : Shivraj Fine Art Litho Works, Nagpur; *Second Prize :* Thomson Press (India) Ltd.; *Certificate of Merit :* (a) Vakil & Sons Pvt. Ltd., Bombay; (b) G.L.S. Press, Bombay.

Direct Mail :

(BLOTTERS, CARDS, LEAFLETS).

First Prize : Saxon Press, Bombay; *Second Prize :* Nil; *Certificate of Merit :* (a) Shree Kundodari Mudranalaya; (b) Saxon Press, Bombay.

SPORTS

The sports come within the purview of the Ministry of Education.

An advisory body, called the All India Council of Sports, composed of 20 persons eminent in the field of sports and games advises the Ministry in all matters relating to development of sports in the country.

The Government of India have set up a National Council of Sports and Physical Education to advise on the promotion and development of sports, games, physical education and recreation in the country. It replaces the All-India Council of Sports, whose term expired at the end of November, 1970.

OLYMPIC RECORDS

'Citius, Altius, Fortius' — 'Swifter, Higher, Stronger'

In the world of sport, no event can match the OLYMPIC GAMES for colour and pageantry, for tension and excitement, for sheer brilliance of performance — from the days of Coroebus of Elis, a cook who won the first recorded Olympic event in 776 B.C., to the present day.

The history of the OLYMPIC GAMES is rich with famous names. Every four years, in some major city of the world, thousands of Olympians gather for athletic competition. In 1896 Baron Pierre de Coubertin fathered the modern Olympic Games. "The important thing" he said, "in the Olympic Games is not winning but taking part. The essential thing in life is not conquering but fighting well."

OLYMPIC CHAMPIONS
MEN'S
100 Metre Dash

Year	*Winner*	*Country*	*Time (Seconds)*
1896	Thomas Burke	U.S.	12·0
1900	Francis Jarvis	,,	10·8
1904	Archie Hahn	,,	11·0
1908	Reginald Walker	S. Africa	10·8
1912	Ralph Craig	U.S.	10·8
1920	Charles Paddock	,,	10·8
1924	Harold Abrahams	G.B.	10·6
1928	Percy Williams	Canada	10·8
1932	Eddie Tolan	U.S.	10·3
1936	Jessie Owens	,,	10·3

100 Metre Dash — (*Contd.*)

Year	*Winner*	*Country*	*Time (Seconds)*
1948	Harrison Dillard	U.S.	10·3
1952	Lindy Remigino	,,	10·4
1956	Bobby Morrow	,,	10·5
1960	Armin Hary	Germany	10·0
1964	Bob Hayes	U.S.	10·0
1968	Hines	U.S.	9·9
1972	Valeriy Borzov	U.S.S.R.	10·14

200 Metre Dash

1900	J. Walter Tewksbury	U.S.	22·2
1904	Archie Hahn	,,	21·6
1908	Robert Kerr	Canada	22·6
1912	Ralph Craig	U.S.	21·7
1920	Allan Woodring	,,	22·0
1924	Jackson Scholz	,,	21·6
1928	Percy Williams	Canada	21·8
1932	Eddie Tolan	U.S.	21·2
1936	Jessie Owens	,,	20·7
1948	Mel Patton	,,	21·1
1952	Andrew Stanfield	,,	20·7
1956	Bobby Morrow	,,	20·6
1960	Livio Berruti	Italy	20·5
1964	Henry Carr	U.S.	20·3
1968	Smith	U.S.	19·8
1972	Valeriy Borzov	U.S.S.R.	20·0

400 Metre Dash

Year	*Winner*	*Country*	*Time (Seconds)*
1896	Thomas Burke	U.S.	54·2
1900	Maxey Long	,,	49·4
1904	Harry Hillman	,,	49·2
1908	Wyndham Halswelle	G.B.	50·0
1912	Charles Reidpath	U.S.	48·2
1920	Beville Rudd	S. Africa	49·6
1924	Eric Liddell	G.B.	47·6
1928	Ray Barbuti	U.S.	47·8
1932	William Carr	,,	46·2
1936	Archie Williams	,,	46·5
1948	Arthur Wint	Jamaica	46·2
1952	George Rhoden	,,	45·9
1956	Charles Jenkins	U.S.	46·7
1960	Otis Davis	,,	44·9
1964	Mike Larabee	,,	45·1
1968	Evans	U.S.	43·8
1972	Vince Mathews	U.S.	44·7

800 Metre Run

Year	*Winner*	*Country*	*Time (mts. seconds)*
1896	Edwin Flack	G.B.	2·11·0
1900	Alfred Tysoe	,,	2·01·4
1904	James Lightbody	U.S.	1·56·0
1908	Melvin Shepperd	,,	1·52·8
1912	James Meredith	U.S.	1·51·9
1920	Albert Hill	G.B.	1·53·4
1924	Douglas Lowe	,,	1·52·4
1928	Douglas Lowe	,,	1·51·8
1932	Thos. Hampson	,,	1·49·8
1936	John Woodruff	U.S.	1·52·9
1948	Mal Whitfield	,,	1·49·2
1952	Mal Whitfield	,,	1·49·2
1956	Thomas Courtney	,,	1·47·7
1960	Peter Snell	New Zealand	1·46·3
1964	Peter Snell	,,	1·45·1
1968	Doubell	Australia	1·44·3
1972	David Wottle	U.S.	1·45·9

1,500 Metre Run

Year	*Winner*	*Country*	*Time (mts. seconds)*
1896	Edwin Flack	G.B.	4·33·2
1900	Charles Bennett	,,	4·06·2
1904	James Lightbody	U.S.	4·05·4
1908	Melvin Shepperd	,,	4·03·4
1912	Arnold Jackson	G.B.	3·56·8
1920	Albert Hill	,,	4·01·8
1924	Paavo Nurmi	Finland	3·53·6
1928	Harry Larva	,,	3·53·2
1932	Luigi Beccali	Italy	3·51·2
1936	Jack Lovelock	New Zealand	3·47·8
1948	Henry Eriksson	Sweden	3·49·8
1952	Joseph Barthel	Luxembourg	3·45·2
1956	Ron Delaney	Ireland	3·41·2
1960	Herbert Elliot	Australia	3·35·6
1964	Peter Snell	New Zealand	3·38·1
1968	K. Keino	Kenya	3·34·9
1972	Pekka Vasala	Finland	3·36·3

5,000 Metre Run

1912	Hannes Kolehmainen	Finland	14·36·6
1920	Joseph Guillemot	France	14·55·6
1924	Paavo Nurmi	Finland	14·31·2
1928	Willie Ritola	,,	14·38·0
1932	Lauri Lehtinen	,,	14·30·0
1936	Gunnar Hockerd	,,	14·22·2
1948	Gaston Reiff	Belgium	14·17·6
1952	Emile Zatopek	Czechoslovakia	14·06·6
1956	Vladimir Kuts	U.S.S.R.	13·39·6
1960	Murray Halberg	New Zealand	13·43·4
1964	Bob Schul	U.S.	13·48·8
1968	Gammoudi	Tunisia	14·05·0
1972	Laase Viren	Finland	13·26·4

10,000 Metre Run

1912	Hannes Kolehmainen	Finland	31·20·8
1920	Paavo Nurmi	,,	31·45·8
1924	Willie Ritola	,,	30·23·2
1928	Paavo Nurmi	,,	30·18·8
1932	Janusz Kusocinski	Poland	30·11·4
1936	Ilmari Salmenin	Finland	30·15·4
1948	Emil Zatopek	Czechoslovakia	29·59·6
1952	Emil Zatopek	,,	29·17·0
1956	Vladimir Kuts	U.S.S.R.	28·45·6
1960	Petr Bolotnikov	,,	28·32·2
1964	Billy Mills	U.S.	28·24·4
1968	Temu	Kenya	29·27·4
1972	Laase Viren	Finland	27·38·4

Marathon

			(hrs. mts. secs.)
1896	Spindon Loues	Greece	2·58·50·0
1900	Michel Teato	France	2·59·45·0
1904	Thomas Hicks	U.S.	3·28·53·0
1908	John Hayes	,,	2·55·18·4
1912	Kenneth Macarthur	S. Africa	2·36·54·8
1920	Hannes Kolehmainen	Finland	2·32·35·8
1924	Albin Stenroos	France	2·41·22·6
1928	El Ouafi	,,	2·32·57·0
1932	Juan Zabala	Argentina	2·31·36·0
1936	Kitei Son	Japan	2·29·19·2
1948	Delfo Cabrera	Argentina	2·34·51·6
1952	Emil Zatopek	Czechoslovakia	2·23·03·2
1956	Alain Mimoun	France	2·25·00·0
1960	Abebe Bikila	Ethiopia	2·15·16·2
1964	Abebe Bikila	,,	2·12·11·2
1968	Wolde	,,	2·20·26·4
1972	Frank Shorter	U.S.	2·12·19·7

3,000 Metre Steeplechase (*hrs. mts. secs.*)

1920	Percy Hodge	G.B.	10·00·4
1924	Willie Ritola	Finland	9·33·6
1928	Toiva Laukola	,,	9·21·8
1932	Volmari Iso-Hollo	,,	10·33·4

(3460 Metres — extra lap by mistake)

1936	Volmari Iso-Hollo	Finland	9·03·8
1948	Thore Sjostrand	Sweden	9·04·6
1952	Horace Ashenfelter	U.S.	8·45·4
1956	Chris Brasher	G.B.	8·41·2
1960	Zdzislav Krzyszkowiak	Poland	8·34·2
1964	Gaston Roelants	Belgium	8·30·8
1968	Biwatte	Kenya	8·51·0
1972	Kip Keino	,,	8·23·6

20,000 Metre Walk

1956	Leonid Spirine	U.S.S.R.	1·31·27·0
1960	Vladimir Golubnichy	,,	1·34·07·2
1964	Kenneth Mathews	G.B.	1·29·34·0
1968	Golubnichiy	U.S.S.R.	1·33·58·4
1972	Peter Frenkel	E. Germany	1·26·42·6

50,000 Metre Walk

1932	Thomas Greene	G.B.	4·50·10·0
1936	Harold Whitlock	,,	4·30·41·4
1948	John Ljunggren	Sweden	4·41·52·0
1952	Guiseppe Dordoni	Italy	4·28·07·8
1956	Norm. Reed	New Zealand	4·30·42·8
1960	Donald Thomson	G.B.	4·25·30·0
1964	Abdon Pamich	Italy	4·11·12·4
1968	Hohne	E. Germany	4·20·13·6
1972	B. Kannenberg	W. Germany	3·56·11·6

400 Metre Relay

1912 Great Britain; 1920 United States; 1924 United States; 1928 United States; 1932 United States; 1936 United States; 1948 United States; 1952 United States; 1956 United States; 1960 Germany; 1964 United States; 1968 United States; 1972 United States.

1,600 Metre Relay

Year and winner (Country) respectively:

1908 United States; 1912 United States; 1920 Great Britain; 1924 United States; 1928 United States; 1932 United States; 1936 Great Britain; 1948 United States; 1952 Jamaica; 1956 United States; 1960 United States; 1964 United States; 1968 United States; 1972 Kenya.

110 Metre Hurdles

Year	*Winner*	*Country*	*Time (seconds)*
1896	Thomas Curtis	U.S.	17·6
1900	Alvin Kraenzlein	,,	15·4
1904	Fredrick Schule	U.S.	16·0
1908	Forrest Smithson	,,	15·0
1912	Fredrick Kelly	,,	15·1
1920	Earl Thomson	Canada	14·8
1924	Daniel Kinsey	U.S.	15·0
1928	Sydney Atkinson	S. Africa	14·8
1932	George Saling	U.S.	14·6
1936	Forrest Townes	,,	14·2
1948	William Porter	,,	13·9
1952	Harrison Dillard	,,	13·7
1956	Lee Calhoun	,,	13·5
1960	Lee Calhoun	,,	13·8
1964	Hayes Jones	,,	13·6
1968	Davenport	,,	13·3
1972	Rodney Milburn	,,	13·24

400 Metre Hurdles

Year	*Winner*	*Country*	*Time (seconds)*
1900	J. Walter Tewksbury	U.S.	57·6
1904	Harry Hillman	,,	53·0
1908	Charles Bacon	,,	55·0
1920	Frank Loomis	,,	54·0
1924	F. Morgan Taylor	,,	52·6
1928	Lord David Burghley	G.B.	53·4
1932	Robert Tisdall	Ireland	51·8
1936	Glenn Hardin	U.S.	52·4
1948	Roy Cochran	,,	51·1
1952	Charles Moore	,,	50·8
1956	Glenn Davis	,,	50·1
1960	Glenn Davis	,,	49·3
1964	Rex Cawley	,,	49·6
1968	Hemery	G.B.	48·1
1972	John Akii-Bua	Uganda	47·82

Pole Vault

Year	*Winner*	*Country*	*Height*
1896	Welles Hoyt	U.S.	10′ 9¾″
1900	Irving Baxter	,,	10′ 9·9″
1904	Charles Drovak	,,	11′ 6″
1908	Albert Gilbert Edward Cook	,, ,,	12′ 2″
1912	Harry Babcock	,,	12′ 11½″
1920	Frank Foss	,,	12′ 5·9″
1924	Lee Barnes	,,	12′ 11½″
1928	Sabin Carr	,,	13′ 9·3″
1932	William Miller	,,	14′ 1·7″
1936	Earle Meadows	,,	14′ 3¼″
1948	O. Guinn Smith	,,	14′ 1¼″
1952	Robert Richards	,,	14′ 11¼″
1956	Robert Richards	,,	14′ 11½″
1960	Donald Bragg	,,	15′ 5·1″
1964	Fred Hansen	,,	16′ 8¾″
1968	Seagren	,,	17′ 8½″
1972	Wolfgang Nordwig	E. Germany	5·50 metres.

High Jump

Year	*Winner*	*Country*	*Height*
1896	Ellery Clark	U.S.	5′ 11¼″
1900	Irving Baxter	,,	6′ 2·4″
1904	Samuel Jones	,,	5′ 11″
1908	Harry Porter	,,	6′ 3″
1912	Alma Richards	,,	6′ 4″
1920	Richard Landon	,,	6′ 4¼″
1924	Harold Osborne	,,	6′ 5·9″
1928	Robert King	,,	6′ 4·3″
1932	Duncan Mcnaughton	Canada	6′ 5·5″
1936	Cornelius Johnson	U.S.	6′ 7·9″
1948	John Winter	Australia	6′ 6″
1952	Walter Davies	U.S.	6′ 8¼″
1956	Charles Dumas	,,	6′ 11¼″
1960	Robert Shavlakadze	U.S.S.R.	7′ 1″
1964	Valerie Brumel	,,	7′ 1¾″
1968	Fosbury	U.S.	7′ 4¼″
1972	Yuri Tarmak	U.S.S.R.	2·23 metres.

Long Jump

Year	*Winner*	*Country*	*Length*
1896	Ellery Clark	U.S.	20′ 10″
1900	Alvin Kraenzlein	,,	23′ 6·7″
1904	Myer Prinstein	,,	24′ 1″
1908	Frank Irons	,,	24′ 6½″
1912	Albert Gutterson	,,	24′ 11¼″
1920	William Pettersson	Sweden	23′ 5½″
1924	DeHart Hubbard	U.S.	24′ 5·1″

Long Jump — (*Contd.*)

Year	*Winner*	*Country*	*Length*
1928	Edward Hamm	U.S.	25′ 4¾″
1932	Edward Gordon	,,	25′ ¾″
1936	Jesse Owens	,,	26′ 5·3″
1948	Willy Steele	,,	25′ 8″
1952	Jerome Biffle	,,	24′ 10″
1956	Gregory Bell	,,	25′ 8¼″
1960	Ralph Boston	,,	26′ 7¾″
1964	Lynn Davis	G.B.	26′ 5½″
1968	Beamon	U.S.	29′ 2½″
1972	Randy Williams	,,	8·24 metres.

Triple Jump

1896	James Connoly	U.S.	45′
1900	Myer Prinstein	,,	47′ 4¼″
1904	Myer Prinstein	,,	47′
1908	Timothy Ahearne	G.B.	48′ 11½″
1912	Gustaf Lindblom	Sweden	48′ 5·1″
1920	Vilho Tuulos	Finland	47′ 6·7″
1924	Archibald Winter	Australia	50′ 11·1″
1928	Mikio Oda	Japan	49′ 10 13/16″
1932	Chuhei Nambus	,,	51′ 7″
1936	Naoto Tajima	,,	52′ 5·7″
1948	Arne Ahman	Sweden	50′ 6¼″
1952	Adhemar Farreira da Silva	Brazil	53′ 2½″
1956	Adhemar Farreira da Silva	,,	53′ 7½″
1960	Jozef Schmidt	Poland	55′ 1¾″
1964	Jozef Schmidt	,,	55′ 3½″
1968	Saneyev	U.S.S.R.	57′ ¾″
1972	Victor Saneev	,,	17·35 metres.

16-lb. Shot-Put

1896	Robert Garett	U.S.	36′ 9¾″
1900	Richard Sheldon	,,	46′ 3·1″
1904	Ralph Rose	,,	48′ 7″
1908	Ralph Rose	,,	46′ 7½″
1912	Patrick McDonald	,,	50′ 4″
1920	Ville Porhola	Finland	48′ 7·1″
1924	Clarence Houser	U.S.	49′ 2½″
1928	John Kuck	,,	52′ 11/16″
1932	Leo Sexton	,,	52′ 6 3/16″
1936	Hans Woelke	Germany	53′ 1¾″
1948	Wilbur Thompson	U.S.	56′ 2″
1952	Parry O'Brein, Jr.	,,	57′ 1½″
1956	Parry O'Brein, Jr.	,,	60′ 11″
1960	William Nieder	,,	64′ 6¾″
1964	Dallas Long	,,	66′ 8½″
1968	Matson	,,	67′ 4¾″
1972	Wladyslaw Komar	Poland	21·18 metres.

Discus Throw

1896	Robert Garett	U.S.	95′ 7½″
1900	Rudolf Bauer	Hungary	118′ 2·9″
1904	Martin Sheridan	U.S.	128′ 10½″
1908	Martin Sheridan	,,	134′ 2″
1912	Armas Taipale	Finland	145′ 9/16″
1920	Elmer Niklander	,,	146′ 7″
1924	Clarence Houser	U.S.	151′ 5¼″
1928	Clarence Houser	,,	155′ 2 4/5″
1932	John Anderson	,,	162′ 4·7″
1936	Kenneth Carpenter	,,	165′ 7½″
1948	Adolfo Consolini	Italy	173′ 2″
1952	Sim Iness	U.S.	180′ 6½″
1956	Alfred Oerter	,,	184′ 10½″
1960	Alfred Oerter	,,	194′ 2″
1964	Alfred Oerter	,,	200′ 1½″
1968	Alfred Oerter	,,	212′ 6½″
1972	Ludwik Danek	Czechoslovakia	64·40 metres.

16-lb. Hammer Throw

Year	*Winner*	*Country*	*Length*
1900	John Flanagan	U.S.	167′ 4″
1904	John Flanagan	,,	168′ 1″
1908	John Flanagan	,,	170′ 4¼″
1912	Mathew McGarth	,,	179′ 7·1″
1920	Patrick Ryan	,,	173′ 5·5″
1924	Frederick Tootell	,,	174′ 10¼″
1928	Patrick O'Callaghan	Ireland	168′ 7½″
1932	Patrick O'Callaghan	,,	176′ 11·1″
1936	Karl Hein	Germany	185′ 4¼″
1948	Imre Nemeth	Hungary	183′ 11½″
1952	Jozsef Csermak	,,	197′ 11¾″
1956	Harold Connolly	U.S.	207′ 3½″
1960	Vasily Rudenkov	U.S.S.R.	220′ 1·5″
1964	Romuald Klim	,,	228′ 10½″
1968	Zsivotzky	Hungary	240′ 8″
1972	Bandarchuck	U.S.S.R.	75·50 metres.

Javelin Throw

1908	Erik Lemming	Sweden	179′ 10½″
1912	Erik Lemming	,,	198′ 11¼″
1920	Jonni Myyra	Finland	215′ 9¾″
1924	Jonni Myyra	,,	206′ 6¾″
1928	Erik Lundquist	Sweden	218′ 6⅛″
1932	Matti Jarvinen	Finland	238′ 7″
1936	Gerhard Stoeck	Germany	235′ 8 5/16″
1948	Tapio Rautavaara	Finland	228′ 10½″
1952	Cy Young	U.S.	242′ ¾″
1956	E. Danielson	Norway	281′ 2¼″
1960	Viktor Cybulenko	U.S.S.R.	277′ 8 3/8″
1964	Pauli Nevala	Finland	271′ 2¼″
1968	Lusis	U.S.S.R.	295′ 7¼″
1972	Klaus Wolfermann	W. Germany	90·48 metres.

Decathlon

Year	*Winner*	*Country*	*Points*
1912	Hugo Wislander	Sweden	7724·49
1920	Helge Lovland	Norway	6804·35
1924	Harold Osborn	U.S.	7710·77
1928	Paavo Yrjola	Finland	8053·29
1932	James Bausch	U.S.	8462·23
1936	Glenn Morris	,,	7900·00
1948	Robert Mathias	,,	7139·00
1952	Robert Mathias	,,	7887·00
1956	Milton Campbell	,,	7937·00
1960	Rafer Johnson	,,	8392·00
1964	Willie Holdorf	Germany	7877·00
1968	Toomey	U.S.	8193·00
1972	Nikolai Avilow	U.S.S.R.	8454·00

WOMEN'S

100 Metre Dash

Year	*Winner*	*Country*	*Time (Seconds)*
1928	Elizabeth Robinson	U.S.	12·2
1932	Stanislawa Walasiewicz	Poland	11·9
1936	Helen Stephens	U.S.	11·5
1948	Fanny Blankers-Koen	Netherlands	11·9
1952	Marjorie Jackson	Australia	11·5
1956	Betty Cuthbert	,,	11·5
1960	Wilma Rudolph	U.S.	11·0
1964	Wyomia Tyus	,,	11·4
1968	Wyomia Tyus	,,	11·0
1972	Renate Stecher	E. Germany	11·07

200 Metre Dash

Year	*Winner*	*Country*	*Time (Seconds)*
1948	Fanny Blankers-Koen	Netherlands	24·4
1952	Marjorie Jackson	Australia	23·7
1956	Betty Cuthbert	,,	23·4
1960	Wilma Rudolph	U.S.	24·0
1964	Edith Mcguire	,,	23·0
1968	Szewinska	Poland	22·5
1972	Renate Stecher	E. Germany	22·4

800 Metre Dash

			(mts. secs.)
1928	Linda Radke	Germany	2·16·8
1960	Ljudmilla Sehvcova	Poland	2·04·3
1964	Ann Packer	G.B.	2·01·1
1968	Manning	U.S.	2·00·9
1972	H. Falck	W. Germany	1·58·6

400 Metre Relay

Year and winner respectively: 1928 Canada; 1932 U.S.; 1936 U.S.; 1948 Netherlands; 1952 U.S.; 1956 Australia; 1960 U.S.; 1964 Poland; 1968 U.S.; 1972 W. Germany.

80 Metre Hurdles

Year	*Winner*	*Country*	*Time (Seconds)*
1932	Mildred Didrikson	U.S.	11·7
1936	Trebisonda Villa	Italy	11·7
1948	Fanny Blankers-Koen	Netherlands	11·2
1952	Shirley Strickland de la Hunty	Australia	10·9
1956	Shirley Strickland de la Hunty	,,	10·7
1960	Irina Press	U.S.S.R.	10·8
1964	Karin Balzer	Germany	10·5
1968	Caird	Australia	10·3

High Jump

Year	*Winner*	*Country*	*Height*
1928	Ethel Catherwood	Canada	5′ 3″
1932	Jean Shiley	U.S.	5′ 5¼″
1936	Ebolya Csak	Hungary	5′ 3″
1948	Alice Coachman	U.S.	5′ 6⅛″
1952	Esther Brann	S. Africa	5′ 5¾″
1956	Mildred Macdaniel	U.S.	5′ 9¼″
1960	Iolanda Balas	Rumania	6′ ¼″
1964	Iolanda Balas	,,	6′ 2⅜″
1968	Rezkova	Czechoslovakia	5′ 11¾″
1972	Ulrike Meyfarth	E. Germany	1·92 metres

Discus Throw

Year	*Winner*	*Country*	*Length*
1928	Helena Konopacka	Poland	129′ 11⅞″
1932	Lillian Copland	U.S.	133′ 2″
1936	Gisela Mauermayer	Germany	156′ 3 3/16″
1948	Micheline Ostermayer	France	137′ 6½″
1952	Nina Romaschkova	U.S.S.R.	168′ 8½″
1956	Olga Fikotova	Czechoslovakia	165′ 7″
1960	Nina Ponomareva	U.S.S.R.	180′ 8¼″
1964	Tamara Press	,,	187′ 10¾″
1968	Manoliu	Rumania	191′ 2½″
1972	Faina Melnik	U.S.S.R.	66·62 metres

Javelin Throw

Year	*Winner*	*Country*	*Length*
1932	Mildred Didrikson	U.S.	143′ 4″
1936	Tilly Fleischer	Germany	148′ 2¾″
1948	Herma Bauma	Austria	149′ 6″
1952	Dana Zatopekova	Czechoslovakia	165′ 7″
1956	Inessa Janzeme	U.S.S.R.	176′ 8″
1960	Elvira Ozolina	,,	183′ 8″
1964	Mihaela Penes	Rumania	198′ 7½″
1968	Nemeth	Hungary	198′ ½″
1972	Ruth Fuchs	E. Germany	63·88 metres

Shot-Put

1948	Micheline Ostermayer	France	45′ 1½″
1952	Galina Zybina	U.S.S.R.	50′ 1½″
1956	Tamara Tishkyeovich	,,	54′ 5″
1960	Tamara Press	,,	56′ 9⅞″
1964	Tamara Press	,,	59′ 6¼″
1968	Gummel	E. Germany	64′ 4″
1972	Nadezhda Chizhova	U.S.S.R.	21·03 metres

Long Jump

1948	Olga Gyarmati	Hungary	18′ 8¼″
1952	Yvette Williams	New Zealand	20′ 5¾″
1956	Elizbeita Krezeskinska	Poland	20′ 9¾″
1960	Vera Krepkina	U.S.S.R.	20′ 10¾″
1964	Mary Rand	G.B.	22′ 2½″
1968	Niscopoleanu	Rumania	22′ 4½″
1972	Heide Rosendahl	W. Germany	6·78 metres

SWIMMING

Men's

Year	*Winner*	*Country*	*Time (mts. seconds)*
	100 Metre Freestyle		
1972	Mark Spitz	U.S.	0·51·22
	200 Metre Freestyle		
1972	Mark Spitz	U.S.	1·52·78
	400 Metre Freestyle		
1972	Brad Cooper	Australia	4·00·27
	1,500 Metre Freestyle		
1972	Michael Burton	U.S.	15·52·58
	4 × 100 Metre Freestyle		
1972	Dave Edgar, John Murphy, Jerry Heidenreich, Mark Spitz	U.S.	3·26·42
	4 × 200 Metre Freestyle		
1972	John Kinsella, Frederick Tyler, Steven Genter, Mark Spitz	U.S.	7·35·78
	100 Metre Breaststroke		
1972	Nobutaka Taguchi	Japan	1·04·94
	200 Metre Breaststroke		
1972	John Hencken	U.S.	2·21·55
	100 Metre Butterfly		
1972	Mark Spitz	U.S.	0·54·27
	200 Metre Butterfly		
1972	Mark Spitz	U.S.	2·00·70
	100 Metre Backstroke		
1972	Roland Matthes	E. Germany	0·56·58

Swimming Men's — *(Contd.)*

Year	*Winner*	*Country*	*Time (mts. seconds)*
	200 Metre Backstroke		
1972	Roland Matthes	E. Germany	2·02·82
	200 Metre Relay		
1972	Gunnar Larsson	Sweden	2·07·17
	400 Metre Relay		
1972	Gunnar Larsson	Sweden	4·31·98
	4 × 100 Metre Medley		
1972	M. Stamm, T. Bruce, M. Spitz, J. Heidenreich	U.S.	3·48·16
	WOMEN'S		
	100 Metre Freestyle		
1972	Sandra Neilson	U.S.	0·58·59
	200 Metre Freestyle		
1972	Shane Gould	Australia	2·03·56
	400 Metre Freestyle		
1972	Shane Gould	Australia	4·19·04
	800 Metre Freestyle		
1972	Keena Rothhammer	U.S.	8·53·68
	4 × 100 Metre Freestyle		
1972	Sandra Neilson, Jennifer Kemp, Jane Barkman, Shirley Babashoff	U.S.	3·55·19
	100 Metre Breaststroke		
1972	Catherine Carr	U.S.	1·13·58
	200 Metre Breaststroke		
1972	Beverley Whitefield	Australia	2·41·71
	100 Metre Butterfly		
1972	Mayumi Aoki	Japan	1·03·34
	200 Metre Butterfly		
1972	Karen Moe	U.S.	2·15·57
	100 Metre Backstroke		
1972	Melissa Belote	U.S.	1·05·78
	200 Metre Backstroke		
1972	Melissa Belote	U.S.	2·19·19
	200 Metre Individual Medley Relay		
1972	Shane Gould	Australia	2·23·07
	400 Metre Individual Medley Relay		
1972	Gail Neall	U.S.	5·02·97
	4 × 100 Metre Medley Relay		
1972	Melissa Belote, Catherine Carr, Deena Dearduff, Sandra Neilson	U.S.	4·20·75

DIVING

Men's

Year	*Winner*	*Country*	*Points*
	Spring board		
1972	Vladimir Vasin	U.S.S.R.	594·09
	Platform		
1972	Klaus Dibiasi	Italy	504·12
	women's		
	Spring board		
1972	Micki King	U.S.	450·03
	Platform		
1972	Ulrika Knape	Sweden	390·00

JUDO (1972)

Light weight : *Winner :* Takao Kawaguchi (Japan); **Welter weight :** Toyokaza Nomura (Japan); **Middle weight :** Shinobu Sekine (Japan); **Light Heavy weight :** Shota Chochoshvili (Russia); **Heavy weight:** Wim Ruska (Holland); **Open Category :** Wim Ruska (Holland).

MODERN PENTATHLON (1972)

Individual : *Winner :* Andras Balezo (Hungary); **Team:** Russia (Boris Onischenko, Pavel Lednev, Vladimir Shmelev).

GYMNASTICS (1972)

Men

(All-round Competition, 12 exercises combined.)

Team : *Winner :* Japan; **Individual :** Sawao Kato (Japan); **Side Horse:** Viktor Klimento (Russia); **Floor Exercise :** Nikolai Andrianov (Russia); **Horse Vault :** Klaus Koeste (E. Germany); **Rings :** Akinori Nakayama (Japan); **Parallel Bars :** Sawao Kato (Japan); **Horizontal Bars :** Mitsuo Tsukahara (Japan).

Women

Team: *Winner :* Russia; **Individual:** Ludmilla Tourischeva (U.S.S.R.); **Floor Exercise :** Olga Korbut (U.S.S.R.); **Horse Vault:** Karin Janz (E. Germany); **Balance Beam :** Olga Korbut (U.S.S.R.); **Uneven Parallel Bars :** Karin Janz (E. Germany).

WRESTLING (1972)

Freestyle

Light Fly weight : *Winner :* Roman Dmitriev (Russia); **Fly weight :** Ki Yomi Kato (Japan); **Bantam weight :** Hideaki Yanagida (Japan); **Feather weight :** Zagalev Uddulbekov (Russia); **Light weight :** Dan Gable (U.S.A.); **Welter weight :** Wayne Wells (U.S.A.); **Middle weight ;** Leven Tediashvili (Russia); **Light Heavy weight :** Ben Peterson (U.S.A.); **Heavy weight** Ivan Yarygin (Russia); **Super Heavy weight :** Alexander Medved (Russia).

Greco-Roman

Light Fly weight : *Winner :* Gheorghe Berceanu (Rumania); **Fly weight :** Peter Kirov (Bulgaria); **Bantam weight:** Rustom Kazakov (Russia); **Feather weight :** Gheorghi Markov (Bulgaria); **Light weight :** Shamil Khizamutdinov (Russia); **Middle weight :** Hegedus Czaba (Hungary); **Light Heavy weight :** Nicolae Martinescu (Rumania); **Super Heavy weight :** Anatoly Roshin (Russia).

WEIGHTLIFTING (1972)

Winner and weight (kg.) respectively :

Flyweight : Z. Smalcerz (Poland), 337·5; **Bantam weight :** Imre Foeldi (Hungary), 377·5; **Feather weight :** Norair Nourikian (Bulgaria), 402·5; **Light weight :** Mukharbi Kirzhinov (Russia), 460·0; **Middle weight :** Yordan Bikov (Bulgaria), 485·0; **Light Heavy weight :** Leif Jenssen (Norway), 507·5; **Middle Heavy weight :** Andon Nikolov (Bulgaria); 525·0; **Heavy weight :** Yan Talts (U.S.S.R.), 580·0; **Super Heavy weight:** Vasili Alexeev (U.S.S.R.), 640·0.

HANDBALL (1972)

Winner : Yugoslavia.

BASKETBALL (1972)

Winner : U.S.S.R.

VOLLEYBALL (1972)

Winners : Men : Japan ; Women : U.S.S.R.

SHOOTING (1972)

Winner : (Country) and points Scored respectively.

Free Pistol : Ragnar Shanaker (Sweden), 567 ; Jorge Henao (Colombia), 535 ; **Rapid Fire Pistol :** Jozef Zapedzki (Poland) 595 ; **Small Bore Rifle :** (Prone position) : Ho Jun Li (N. Korea), 599 ; (3 positions) : John Writer (U.S.A.), 1166 ; **Free Rifle :** Lones Wigger (U.S.A.), 1155 ; **Moving Target :** Lakov Zhelezniak (U.S.S.R.), 569 ; **Trap :** Angelo Scalzone (Italy), 199; **Skeet :** Konrad Wirnhier (W. Germany), 195.

BOXING (1972)

Light Fly weight : Georgy Gedo (Hungary) ; **Fly weight :** Gheorghe Kostadinov (Bulgaria) ; **Bantam weight :** Orlando Martiney (Cuba) ; **Light weight :** Jan Szcepanski (Poland); **Light Welter weight :** Ray Seales (U.S.A.) ; **Welter weight :** Emilio Correa (Cuba) ; **Light Middle weight :** Dieter Kottysch (W. Germany) **Middle weight :** Vyacheslav Lemechev (U.S.S.R.) **Light Heavy weight :** Mate Parlov (Yugoslavia) ; **Heavy weight :** Teofile Stevenson (Cuba).

CYCLING (1972)

100 KM Team Time Trial: U.S.S.R. (Boris Chouhov, Valeri Lardy, Gennady Komnatov, Valery L. Khachey) ; **100 KM Individual :** Hennie Kuiper (Holland) : **1000 M Time Trial :** Niels Fredborg (Denmark) ; **Scratch Sprint :** Daniel Morelon (France) ; **Tandem :** Russia ; **Team Pursuit :** W. Germany.

FENCING (1972)

Men

Foil Team : Poland ; **Foil Individual :** Witold Woyda (Poland) ; **Sabre Team :** Italy ; **Sabre Individual:** Viktor Sidiak (U.S.S.R.) ; **Epee Team:** Hungary ; **Epee Individual :** Csaba Fenyvesi (Hungary).

Women

Foil Team : Russia ; **Foil Individual :** Antonell Ragno Lonzi (Italy).

ROWING (1972)

Winner (Country) and time (in mts. seconds) respectively.

Single Sculls : Y. Malishev (Russia), 7·10·12 ; **Coxed Pairs :** East Germany, 7·17·25 ; **Coxless Pairs:** S. Brietzke and W. Mager (E. Germany), 6·57·6 ; **Double Sculls :** A. Timoshinin and G. Korshikov (Russia), 7·01·77 ; **Coxed Fours:** W. Germany, 6·31·85 ; **Coxless Fours :** E. Germany, 6·24·27 ; **Eights :** New Zealand 6·08·94.

CANOEING (1972)

Winner (Country) and time (in mts. seconds) respectively.

Kayak Singles : A. Shaperenko (Russia), 3·48·06 ; **Canadian Singles :** I. Patzai Chin (Rumania), 4·8·94 ; **Kayak Pairs :** N. Gorbachev and V. Kratassyuk (U.S.S.R.), 3·31·23 ; **Canadian Pairs :** V. Chessyunas and Y. Lobanov (U.S.S.R.), 3·52·60 ; **Kayak Fours :** U.S.S.R., 3·14·02.

Olympic Football

Year and Winner respectively : 1912 Great Britain ; 1920 Belgium ; 1924 Uruguay ; 1928 Uruguay ; 1936 Italy ; 1948 Sweden ; 1952 Hungary ; 1956 Soviet Union ; 1960 Yugoslavia ; 1964 Hungary ; 1968 Hungary ; 1972 Poland.

WORLD CUP SOCCER

The Jules Rimett Cup : 1930 Uruguay ; 1934 Italy ; 1938 Italy ; 1950 Uruguay ; 1954 W. Germany ; 1958 Brazil ; 1962 Brazil ; 1966 England ; 1970 Brazil ; 1972 Holland.

NATIONAL FOOTBALL

Santosh Trophy : Year and winners respectively : 1953 Bengal ; 1954 Bombay ; 1955 Bengal ; 1956 Hyderabad ; 1957 Hyderabad ; 1958 Bengal ; 1959 Bengal ; 1960 Services ; 1961 Railways ; 1962 Bengal ; 1963 Maharashtra ; 1964 Bengal ; 1965 (not played) ; 1966 Andhra Pradesh ; 1967 Mysore ; 1968 Mysore ; 1969 Bengal ; 1970 Punjab ; 1971 Bengal ; 1972 Bengal.

Rovers Cup : Year and winner respectively : 1953 Hyderabad Police ; 1954 Hyderabad Police ; 1955 Mohan Bagan ; 1956 Mohamedan Sporting ; 1957 Hyderabad Police ; 1958 Caltex ; 1959 Mohamedan Sporting ; 1960 Andhra Pradesh Police ; 1961 E.M.E. Secundrabad ; 1962 East Bengal — Andhra Pradesh Police ; 1963 Andhra Pradesh Police ; 1964 Bengal Nagpur Railway ; 1965 (not played) ; 1966 Mohan Bagan ; 1967 East Bengal ; 1968 Mohan Bagan ; 1969 East Bengal 1970 , Mohan Bagan ; 1972 East Bengal and Mohan Bagan.

I.F.A. Shield : Year and Winners respectively : 1954 Mohan Bagan ; 1955 Rajasthan S.C. ; 1956 (not held) ; 1957 Mohamedan Sporting ; 1958 East Bengal ; 1959 Abandoned ; 1960 Mohan Bagan ; 1961 Mohan Bagan ; 1962 Mohan Bagan ; 1963 Bengal Nagpur Railway ; 1964 East Bengal ; 1965 (Not played) ; 1966 Mohan Bagan ; 1967 East Bengal — Mohan Bagan ; 1968 Mohan Bagan — Mohamedan Sporting ; 1969 (not held) ; 1970 East Bengal.

Durand Cup : Year and winner respectively : 1953 Mohan Bagan ; 1954 Hyderabad Police ; 1955 Madras Regimental Centre ; 1956 East Bengal ; 1957 (not held) ; 1958 (not held) ; 1959 Mohan Bagan ; 1960 East Bengal ; 1961 Andhra Pradesh Police ; 1962 (not held) ; ; 1963 Mohan Bagan ; 1964 Mohan Bagan ; 1965 (not held) ; 1966 Gorkha Brigade ; 1967 East Bengal ; 1968 Border Security Force ; 1969 Gorkha Brigade ; 1970 East Bengal ; 1972 East Bengal.

TENNIS

Davis Cup : Year and winner respectively : 1900 U.S. ; 1902 U.S. ; 1903 British Isles ; 1904 British Isles ; 1905 British Isles ; 1906 British Isles ; 1907 to 1909 Australia ; 1911 Australia ; 1912 British Isles ; 1913 U.S. ; 1914 Australia ; 1919 Australia ; 1920 to 1926 U.S. ; 1927 to 1932 France ; 1933 to 1936 G.B. ; 1937-38 U.S. ; 1939 Australia ; 1946 to 1949 U.S. ; 1950 to 1953 Australia ; 1954 U.S. ; 1955 to 1957 Australia ; 1958 U.S. ; 1959 to 1962 Australia ; 1963 U.S. ; 1964 to 1967 Australia ; 1968 to 1972 U.S.

OLYMPIC HOCKEY

Year and winner respectively : 1908 Great Britain ; 1920 Great Britain ; 1928 India ; 1932 India ; 1936 India ; 1948 India ; 1952 India ; 1956 India ; 1960 Pakistan ; 1964 India ; 1968 Pakistan ; 1972 Germany.

HOCKEY (NATIONAL)

Rangaswamy Cup : Year and winner respectively : 1953 Services ; 1954 Madras Services ; 1955 Services ; 1956 Railways ; 1957 Railways ; 1958 Railways ; 1959 ; Services ; 1960 Services ; 1961 Railways ; 1962 Railways ;

1963 Railways; 1964 Punjab; 1965 (not held); 1966 Railways-Madras; 1967 Railways; 1968 Punjab; 1969 Punjab-Railways; 1970 Punjab; 1971 Punjab; 1972 Punjab.

Aga Khan Cup: Year and winner respectively: 1953 Lusitanian S.C.; 1954 Punjab; 1955 Bombay City Police; 1956 (not held); 1957 Burmah Shell; 1958 Northern Railway; 1959 Punjab Police; 1960 I.H.F. Presidents XI; 1961 Maratha L.I.; 1962 North Eastern Railway; 1963 Mohan Bagan; 1964 Punjab Police; 1965 (not held); 1966 Punjab Police; 1967 Western Railway; 1968 Punjab Police; 1969 (not played); 1970 (not played); 1971 Indian Air Lines; 1972 (Not played).

Beighton Cup: Year and winner respectively: 1953 Tata S.C.; 1954 Western Railway-Uttar Pradesh; 1955 Services; 1956 East Bengal; 1957 Mohan Bagan; 1958 Corps of Signals; 1959 Mohan Bagan; 1960 Central Railway; 1961 Central Railway; 1962 Central Railway; 1963 Mohan Bagan; 1964 Mohan Bagan-Customs A.C.; 1965 (not held); 1966 East Bengal; 1967 Mohan Bagan; 1968 (not held); 1969 Western Railway; 1970 Western Railway. 1971 Mohan Bagan and B.S.F. (Jt. holders); 1973 Mohan Bagan and Indian Hockey Federation Dark Blues.

CRICKET

TEST MATCHES: **with England:** 1932 (In England) India lost the only match played by 158 Runs; 1933-34 (In India) India lost 2 and drew 1; 1936 (In England) India lost 2 and drew 1; 1946 (In England) India lost 1 and drew 2; 1951-52 (In India) India won 1, lost 1, and drew 3; 1952 (In England) India lost 3 and drew 1; 1959 (In England) India lost 5; 1962 (In India) India won 2 and drew 3; 1964 (In India) All 5 Test drawn; 1967 (In England) India lost all 3 tests; No matches were held during 1968 to 1970; In 1971, (In England) India won one and drew two. In (1972) in India, India won two, lost one, and two were drawn.

Australia: 1947 (In Australia) India lost 4 and drew 1; 1956 (In India) India lost 2 and drew 1; 1959-60 (In India) India won 1, lost 2, and drew 2; 1964 (In India) India won 1, lost 1 and drew 1; 1967-68 (In Australia) India lost all 4; 1969-70 (In India) India won 1, lost 3 and drew 1.

West Indies: 1948 (In India) India lost 1 and drew 4; 1953 (In West Indies) India lost 1 and drew 4; 1958 (In India) India lost 2 and drew 3; 1962 (In West Indies) India lost all 5; 1966-67 (In India) India lost 2 and drew 1; 1971 (In West Indies) played 5 test matches (India won 1, drew 4) India got rubber.

Pakistan: 1952 (In India) India won 2, lost 1 and drew 3; 1954 (In Pakistan) All 5 Tests drawn; 1960-61 (In India) All 5 Tests drawn.

New Zealand: 1955-56 (In India) India won 2 and drew 3; 1965 (In India) India won 1 and drew 3; 1968 (In New Zealand) India won 3 and lost 1; 1969 (In India) India won 1, lost 1 and drew 2; 1970 (In India) India won 1, lost 1, and drew 1 (Played three test matches).

RANJI TROPHY
Championship 1934-1973

Year	*Winners*	*Runners up*
1934-35	Bombay	Northern India
1935-36	Bombay	Madras
1936-37	Nawanagar	Bengal
1937-38	Hyderabad	Nawanagar
1938-39	Bengal	Southern Punjab
1939-40	Maharashtra	United Provinces
1940-41	Maharashtra	Madras
1941-42	Bombay	Mysore
1942-43	Baroda	Hyderabad
1943-44	Western India	Bengal
1944-45	Bombay	Holkar
1945-46	Holkar	Baroda
1946-47	Baroda	Holkar
1947-48	Holkar	Bombay
1948-49	Bombay	Baroda
1949-50	Baroda	Holkar
1950-51	Holkar	Gujarat
1951-52	Bombay	Holkar
1952-53	Holkar	Bengal
1953-54	Bombay	Holkar
1954-55	Madras	Holkar
1955-56	Bombay	Bengal
1956-57	Bombay	Services
1957-58	Baroda	Services
1958-59	Bombay	Bengal
1959-60	Bombay	Mysore
1960-61	Bombay	Rajasthan
1961-62	Bombay	Rajasthan
1962-63	Bombay	Rajasthan
1963-64	Bombay	Rajasthan
1964-65	Bombay	Hyderabad
1965-66	Bombay	Rajasthan
1966-67	Bombay	Rajasthan
1967-68	Bombay	Madras
1968-69	Bombay	Bengal
1969-70	Bombay	Rajasthan
1970-71	Bombay	Maharashtra
1971-72	Bombay	Bengal
1972-73	Bombay	Tamil Nadu

DULEEP TROPHY TOURNAMENT

Year	*Winners*	*Runners up*
1961-62	West Zone	South Zone
1962-63	West Zone	South Zone
1963-64	West Zone South Zone	
1964-65	West Zone	Central Zone
1965-66	South Zone	Central Zone
1966-67	South Zone	West Zone
1967-68	South Zone	West Zone
1968-69	West Zone	South Zone
1969-70	West Zone	North Zone
1970-71	South Zone	East Zone
1971-72	Central Zone	West Zone
1972-73	West Zone	Central Zone

EVENTS—1972

INDIAN

Political

Jan. 20 : Sir Ramgoolam, Mauritian Prime Minister on a state visit to India. He was here up to 5th February.

Jan. 20 : The new States Meghalaya and Arunachal Pradesh were formally inaugurated by the Prime Minister Smt. Indira Gandhi.

Jan. 21 : Mizoram inaugurated as a Union Territory and Manipur and Tripura as States, by the Prime Minister Smt. Indira Gandhi.

Jan. 29 : Mr. P. C. Sethi sworn- in as Madhya Pradesh Chief Minister.

Feb. 5-9 : Sir Alec Douglas-Home in India to have talks with Indian leaders.

Feb. 6-7 : Mujibur Rehman in India. Held talks on subjects of mutual interest with Prime Minister, Smt. Indira Gandhi.

Mar. 1 : Japanese deputy vice-minister for Foreign Affairs Mr. Shinsaku Hogen in Delhi for the Indo-Japanese bilateral consultations.

Mar. 13 : The budget session of Parliament commenced.

Mar. 17-18 : Smt. Indira Gandhi was in Dacca, on a state visit

Mar. 19 : Indo-Bangla Desh 25-year friendship treaty signed by Smt. Indira Gandhi and Sheikh Mujibur Rehman.

Mar. 27-30 : President V. V. Giri on a state visit to Thailand.

Apr. 3-6 : Mr. Swaran Singh, Minister for External Affairs visited Moscow to have talks with U.S.S.R. Government.

Apr. 13-15 : Chief Ministers' conference held at New Delhi.

Apr. 13-14 : All India Socialist Party conference held at Allahabad

Apr. 14 : Rajya Sabha adjourned sine die.

Apr. 17 : Prime Minister of Nepal Mr. Kirti Nidhi Bista on a state visit to India. He was here up to May 2.

Apr. 26 : Emissary level talks between India and Pakistan took place, to pave the way for a future summit meeting between the two countries.

Apr. 30 : National Development Council met in New Delhi.

May 3 : Andhra Pradesh assembly was prorogued.

May 12 : Prime Minister Smt. Indira Gandhi, called a meeting of her cabinet colleagues, most of the chief ministers and members of the Congress Working Committee for a discussion on major socio-economic policies.

June 1 : 12-week budget session of the Lok Sabha adjourned.

June 1-2 : All India Congress Committee elected Dr. Shankar Dayal Sharma, as the new President of the Party.

June 5 : The Kashmir government lifted the restriction on Sheikh Abdulla's entry into the State.

June 17 : Smt. Indira Gandhi in Czechoslovakia on a state visit

June 20 : Smt. Indira Gandhi in Hungary on a state visit.

June 27 : The 9th All India Communist Party (Marxist)conference was held at Madurai. It lasted up to July 3.

June 28 : President Bhutto arrived in Simla for summit talks with India's Prime Minister Smt. Indira Gandhi.

July 2-3 : Indo-Pak agreement at Simla was signed by President Bhutto of Pakistan, and the Indian Prime Minister Smt. Indira Gandhi after midnight.

July 4-14 : President V. V. Giri visited Cyprus, Yugoslavia and Afghanistan on a state visit.

July 30-31 : Congress Working Committee met to review the political situation in the country and the Simla Agreement.

Aug. 15 : 25th anniversary of Indian independence day celebrated.

Sept. 5 : An Indian delegation led by Foreign Secretary, Mr. T. N. Kaul, in Moscow to hold talks with Soviet leaders.

Sept. 17 : Mr Y. B. Chavan, Finance Minister, visited London, (Finance Ministers' Conference), Washington (IMF meeting) and Tokyo (bilateral talks). He was away till October 8.

Sept. 23 : President V. V. Giri on a 13-day visit to Tanzania, Ethiopia, Zambia. Returned on October 6.

Oct. 8-10 : All India Congress (Ruling) Committee session was held at Induchachanagar near Gandhinagar, Gujarat.

Oct. 18-21 : Agitations all over Tamil Nadu State, due to a split in the ranks of the ruling party, Dravida Munnetra Kazhagam.

Oct. 28 : The All India Congress (O) Committee session was held at Pune.

Nov. 3 : Asia Fair 72 began and ended on December 17.

Nov. 6 : A Bangla Desh delegation headed by their Foreign Secretary Mr. Enayat Karim arrived in New Delhi for Indo-Bangla bilateral talks.

Nov. 7 : The North Eastern Regional Council, which came into being on August 1, was formally inaugurated by the Prime Minister Smt. Indira Gandhi. The Council has been set up to ensure balanced and co-ordinated development of the entire north-eastern region.

Nov. 13-15 : Tamil Nadu speaker adjourned the House (DMK Split echo).

Nov. 18-20 : Jan Sangh Working Committee meeting held at Jaipur, to review the political situation in India.

Nov. 20 : Sporadic Anti-mulki Agitations call over Andhra State.

Dec. 27 : President of Bangla Desh, Mr. Abu Sayeed Chowdhury, visited India. He was here till January 5.

Miscellaneous

Mar. 18 : World Book Fair held in Delhi till April 12.

Apr. 14 : Mass surrender of dacoits of Chambal Valley began in response to a peace mission led by Mr. Jayprakash Narayan.

Apr. 16 : Training ship Rajendra, which replaced Training ship Dufferin, commissioned in Bombay, by the Vice President, Mr. G. S. Pathak.

Apr. 29 : Rs. 490 million Cochin Shipyard being built with Japanese collaboration inaugurated by the Prime Minister, Smt. Indira Gandhi.

May 3-23 : A broiling heat wave that engulfed the entire country took almost 500 lives.

May 14 : 1st cultural delegation from Bangla Desh arrived in India.

May 27 : A Jawaharlal Nehru commemorative capsule was lowered into the earth near Pandit Nehru's samadhi in Shanti Van, New Delhi.

June 3 : The Prime Minister Smt. Indira Gandhi commissioned the first Indian made frigate INS Nilgiri.

Aug. 2-8 : A seminar organised by the Union Government and the ILO was held in New Delhi to discuss the problem of unemployment, and creation of more employment.

Aug. 15 : Birth Centenary of Shri Aurobindo was celebrated.

Aug. 17-29 : Cement factory workers strike all over India.

Aug. 20-26 : A 12-member Iraqi delegation visited India to hold talks on political and economic matters.

Sept. 10 : A cyclone hits the 100 km stretch of Orissa coast from Puri to Chandbali causing hundreds of houses to collapse.

Oct. 4-14 : Widespread riots in Assam, sparked by the language medium issue in colleges.

Oct. 7 : Army moved into Moga and Ludhiana to quell riots that had broken in several towns of Punjab. The riots were sparked by the police firing on an unruly mob of students in Moga.

Oct. 12-23 International Training Conference of the girl-guides held in Pune.

Oct. 17-27 : FAO, 11th regional conference held in New Delhi.

Oct. 27-29 : Prime Minister, Smt. Indira Gandhi, attended the funeral of King Jigme Dorji Wangchuk of Bhutan.

Nov. 14 : Indipex—73, was held in New Delhi. The most successful international exhibition in philatelic history which lasted up to December 23.

Nov. 15 : Delhi University was closed following a call for an indefinite strike by the University Students Union.

Nov. 25 : First Asian Theatre Conference held in Bombay.

Dec. 2 : A 67-day old agitation by the students of Bihar Engineering College ended after their demand for appointment of an experts commission to enquire into the affairs of the college was accepted.

Dec. 4 : Delhi University which had closed down since 9th November reopened.

WORLD

Jan. 1 : Martial law, in force in Greece since the Army coup in 1967, was lifted — except in the capital and two other major urban centres.

Jan. 9 : Sheikh Mujibur Rehman left London for Dacca via Delhi. Earlier he had been secretly flown to London from Karachi after he had been released from jail.

Jan. 10 : Fifth Afro-Asian Conference admitted Bangla Desh as an observer.

Jan. 11 : East Germany accorded formal recognition to Bangla Desh.

Jan. 12 : Sheikh Mujibur Rehman became the Prime Minister of Bangla Desh.

Jan. 13 : The democratically-elected Ghanaian Government of Dr. Kofi Busia was overthrown by a bloodless military coup led by Lieut.-Colonel Ignatius Kutu Acheampong, the acting commander of the 1st Brigade of the Ghana Army.

Jan. 22 : U.K. Joined the European Common Market.

Jan. 24 : U.S.S.R. accorded formal recognition to Bangla Desh.

Jan. 28 : The U.N. Security Council held a 'special session on Colonialism and Racial Injustice in Southern Africa' in Adis Ababa. It ended on February 4.

Jan. 31 : President Z. A. Bhutto of Pakistan left Rawalpindi on a visit to Peking. He was accompanied by the heads of Pakistan's Army, Navy and Air Force.

Feb. 4 : Britain and West Germany accorded formal recognition to Bangla Desh.

Feb. 9 : The longest dock strike (which started on October 1, 1971) in U.S. history, which had affected 24 ports on the west coast, ended.

Feb. 10 : Japan accorded formal recognition to Bangla Desh.

Feb. 12 : France accorded formal recognition to Bangla Desh.

Feb. 17 : President Richard Nixon left Washington on his history-making 'journey of peace' to China. He met Chairman Mao Tse-tung in Peking on February 21.

Feb. 22 : A Lufthansa airline's Boeing 774 bound for Athens was hijacked by Arab commandos to Aden from Delhi, with its 172 passengers including Joseph Kennedy, the

19-year old son of the late U.S. senator Robert Kennedy, and the crew of 16. The passengers were allowed to leave the plane the next day but the release of the crew was obtained by the West German Government after paying a ransom of 5 million U.S. dollars on February 25.

Feb. 25 : Britain's 280,000 coal miners ended their nationwide seven-week long strike, casting an overwhelming majority vote that guaranteed a speedy windup of a power crisis disrupting Britain's economy and idling millions.

Feb. 26 : U.N. Security Council convened to deal with border clashes between Israel and South Lebanon.

Feb. 28 : President Richard Nixon returned to Washington after his historic visit to China.

Mar. 3 : Sheikh Mujibur Rehman, the Bangla Desh Prime Minister visited the U.S.S.R. for a 3-day talk with the Soviet leaders.

Mar. 15-27 : The 25th anniversary session of the ECAFE held at Bangkok.

Mar. 23 : President Z. A. Bhutto of Pakistan convened the Provincial Assemblies as a first step towards return to civilian rule.

Apr. 4 : An international conference on 'Non-violent transformation of Society' was held at Drienbergen, Holland. It was attended by 50 delegates from developing countries including India.

Apr. 4 : U.S.A. accorded formal recognition to Bangla Desh.

Apr. 10 : U.S.A., U.S.S.R. and U.K. signed at London an inter-national convention to ban biological weapons.

Apr. 13-17 : The Third U.N. Conference on Trade and Development (UNCTAD) was held at Santiago, Chile.

Apr. 17 : Democratic Republic of Bangla Desh was formally announced at Mujibnagar.

Apr. 18 : The Republic of Bangla Desh was admitted to the Commonwealth as its 32nd member.

Apr. 20 : 'Apollo-16', the fifth U.S. Moon Mission, landed on the moon in the Descartes region, which was blasted off from Cape Kennedy on April 16. On its return journey it splashed down in the pacific on April 27 north of Christmas Island.

May 8 : Four Arab guerillas — two men and two women — of the Black September organisation held 100 people as hostages in a hijacked Sabena airline's Boeing 707 at Lod airport of Tel Aviv demanding from Israel the release of an equivalent number of Arab commando prisoners. Next day a dozen Israeli commandos disguised as aircraft mechanics stormed the plane, killing three hijackers and arresting the fourth.

May 8 : Fourth Conference of the Confederation of Asian Chambers of Commerce and Industry started at Perth. 300 delegates from various countries including India attended.

May 8 : President Richard Nixon ordered the U.S. Navy to mine and blockade all North Viet Namese ports to deny Hanoi weapons it needed for its offensive in the South.

May 13 : The U.S. Government lifted its blockade of North Viet Namese ports.

May 21 : Loslo Toth, a Hungarian born geologist living in Australia, smashed with a hammer Michelangelo's priceless 'Pieta' in St. Peter's Basilica.

May 22 : Ceylon became a republic and was renamed Sri Lanka.

May 22 : President Richard Nixon arrived in Moscow for a summit meeting with Soviet leaders.

May. 28 : Thousands of refugees arriving in Tanzania from Zaire and Burundi were slaughtered after an uprising against the Government had failed.

May 29 : President Z. A. Bhutto of Pakistan left Rawalpindi on a tour of 14 countries in West Asia and North Africa.

May 29 : President Richard Nixon and Leonid Brezhnev, First Secretary of the Central Committee of the Communist Party of Soviet Union, signed a 12-point Soviet-American Declaration on the 'basic principles of relations' between the two countries of which the important points were (1) Limitation of anti-ballistic missile system; (2) Limitation of the strategic offensive arms; (3) Environmental Protection Agreement; and (4) the Space Co-operation Agreement providing for the first joint space flight by astronauts of the two countries to take place in 1975.

May 30 : A Japanese suicide squad of three hired by Arab guerrillas indulged in a shooting spree at Tel Aviv's Lod airport killing 26 people and injuring 72.

May 30 : President Richard Nixon visited Iran.

June 3 : The foreign ministers of U.S.A., U.S.S.R., U.K., and France activated the Berlin 'Big Four' accord easing the transfer to and from Berlin.

June 4 : Angela Davis, the 28-year old U.S. black militant who had been under arrest for the past 22 months on charges of murder, kidnapping and criminal conspiracy was declared not guilty on all counts by an all-white jury.

June 5 : A U.N. Conference on 'Environment' opened in Stockholm, Sweden.

June 7-27 : The 57th conference of the International Labour Organisation (ILO) was held at Geneva.

June 16 : The Ninth summit of the Organisation of African Union (OAU) concluded at Rabat.

June 19 : Airline pilots all over the world observed a one-day token strike to protest against inadequate anti-hijacking measures.

July 4 : North and South Korea pledged to reunite.

July 22 : A Soviet space probe 'Venus 8' made a soft landing on the planet Venus after having covered a distance of about 321 million Kms. (200 million miles) in 117 days since its launching on March 27.

July 22 :	Britain's 42,000 longshoremen went on a strike to protest against the jailing of five London dock workers for defying the nations new labour court. The strike ended on August 16.
Aug. 5 :	First meeting between North and South Korea took place at Pyongyang.
Aug. 8 :	President Idi Amin of Uganda ordered alien Asians to leave the country by November 8.
Aug. 26 :	XXth Olympic games were held in Munich, West Germany, which lasted upto September 11.
Sept. 1 :	Bobby Fischer of America won the chess crown from Boris Spaasky of Russia.
Sept. 4-11 :	Farnborough Air Show held in London. India participated in it for the first time.
Sept. 5 :	Eleven Israeli athletes participating in the XXth Olympic games in Munich were murdered by Arab terrorists of the Black September organisation. Five of the Arab terrorists involved were subsequently shot dead by the German police in a gun battle at Furstenfeldbruck airfield, some 20 miles from Munich, while a German police officer was also killed by the terrorists.
Sept. 6 :	The Olympic Games which were suspended owing to the tragedy caused by Arab guerillas were resumed.
Sept. 8 :	Israel Air Force attacked guerilla bases in Lebanon and Syria in retaliation of the Munich massacre.
Sept. 10-13 :	Dr. Henry Kissinger, president Richard Nixon's top adviser visited Moscow for talks with the Soviet leaders.
Sept. 19 :	Dr. Ami Shachori (44), agricultural Counsellor at the Israel Embassy in London, was killed when opening a letter addressed to him which contained explosive material. This was the first letter-bomb sent by the Arab extremists in a series of letter-bombs sent to Israel diplomats in various countries.
Sept. 21-22 :	Commonwealth Finance Ministers' meeting in London.
Oct. 17 :	Dr. Henry Kissinger in Saigon for talks with President Thieu of South Viet Nam.
Oct. 29 :	A Lufthansa airline's Boeing 727 hijacked by two Arab commandos left Zagreb with all crew and passengers, and by threatening to blow up the plane secured the release of the three Arabs who had been detained after the Munich massacre; they then flew with the released prisoners to Tripoli on November 2.
Oct. 30 :	General elections were held in Canada.
Nov. 1 :	Second Asia Population Conference attended by 25 nations was held at Tokyo.
Dec. 7-19 :	The sixth and the last moon mission — 'Apollo 17' — took off from Cape Kennedy on December 7, and soft landed on the moon on December 11 in Taurus-littrow. On its return it splashed down in the Pacific, south of Samoa on December 19.

MISHAPS

Jan. 7 :	A Spanish jet liner on a flight from Madrid crashed near Balearic Islands killing 104 people.
Jan. 7 :	Typhoon 'Kit' in Philippines, killed 180.
Jan. 9 :	Fire destroyed the former luxury liner 'Queen Elizabeth', in Hong Kong harbour.
Feb. 10 :	A massive avalanche hit Iran. An entire village buried under snow.
Mar. 14 :	All the 112 persons aboard a Danish jetliner were killed when the plane crashed on its way from Colombo to Copenhagen.
Mar. 20 :	At least 118 persons were killed and many were listed missing in a blizzard in Japan.
Apr. 2-4 :	Cyclonic storms and a deadly tornado killed at least 300-people and injured over 4,000 in Northern Bangla Desh.
Apr. 10 :	An Earthquake in Iran caused the death of about 4,000 and injured many others.
Apr. 18 :	An East African Airways plane carrying 107 people — many of them British school children — crashed near Addis Ababa.
May 5 :	All 115-people aboard were killed when an Alitalia DC-8 jet crashed in Sicily.
June 15 :	A Japanese Airlines DC-8 crashed near Delhi. 82 people died.
June 18 :	A British European Airways jetliner with 118 aboard crashed in Britain in the country's worst ever air disaster.
Sept. 17 :	Typhoon 'Helen' battered wide areas of Japan, leaving at least 22 dead and four large ships aground. Indian ship 'State of Travancore Cochin' went aground.
Sept. 25 :	A Japanese Airlines' DC-8 carrying 108 passengers and a crew of 14 on a Teheran-Tokyo flight made a 'forced' landing apparently by mistake at the Juhu Strip and not at the Santa Cruz airport of Bombay. The aircraft was severely damaged and had to be scrapped.
Oct. 14 :	A Soviet Airliner crashed near Moscow airport, 170 crew and passengers perished.
Nov. 28 :	A Japanese Airlines' DC-8 jet aircraft with 62 passengers on board crashed near Moscow airport.
Dec. 14 :	East German Ilyushin-18, with 18 passengers and a crew of 8, on a chartered flight from Berlin to Dacca, was to make a technical halt at Santa Cruz airport at Bombay but it landed wrongly at Juhu airport. It was safely flown to Santa Cruz airport the next day.
Dec. 23 :	Earthquake in Nicaragua — 20,000 killed.

DEATHS

Jan. 6 :	Marshal Chen Yi (71) — China's Foreign Minister, in Peking, China.
Jan. 14 :	H.M. King Frederik IX of Denmark (72) — Monarch since 1947.
Jan. 18 :	A. N. Jha (60) — Lt. Governor of Delhi, in Delhi.
Jan. 27 :	Mahalia Jackson (60) — Gospel singer of U.S.A., in Chicago.

Jan. 31 : H. M. King Mahendra Bir Bikram Shah Deva of Nepal (51), in Bharatpur, Nepal.

Feb. 14 : Edgar Snow (66) — American writer and a friend of Chairman Mao Tse-tung, in Switzerland.

Mar. 2 : Sorab Nagarwala (51) — accused in the State Bank's Rs. 6 million fraud case, in Delhi.

Mar. 21 : Prem Nath Dogra (89) — Jana Sangh leader and member of Jammu and Kashmir Assembly, in Jammu.

Mar. 29 : Nandan Kagal (46) — Journalist, Resident Editor of *Indian Express*, in Delhi.

Mar. 29 : Lord J. Arthur Rank (83) — Movie Mogul of Britain, in Winchester, U.K.

Mar. 31 : Meena Kumari (40) — Film actress, in Bombay.

Apr. 6 : Heinrich Luebke (77) — former West German President, in Bonn.

Apr. 18 : Lt. Gen. B. M. Kaul (59) — Commander of Special Corps in NEFA during 1962 Chinese invasion, in Delhi.

Apr. 18 : Prof. P. V. Kane (92) — National Professor of Indology, Bharat Ratna 1963, in Bombay.

Apr. 20 : S. B. Jalan (60) — Industrialist, in Delhi.

Apr. 24 : Jamini Roy (84) — Painter, in Calcutta.

Apr. 25 : George Sanders (66) — Film actor, in Barcelona, Spain (suicide).

Apr. 27 : Dr. Kwame Nkrumah (63) — former President of Ghana, in Conakry, Guinea.

Apr. 29 : Dr. G. D. Purandhare (72) — Gynaecologist, in Bombay.

Apr. 30 : Gia Scala (36) — British born actress, in Hollywood.

May 1 : Kamalnayan Bajaj (60) — Industrialist, in Ahmedabad.

May 2 : J. Edgar Hover (77) — Director, Federal Bureau of Investigation (FBI), U.S.A., in Washington.

May 22 : Margaret Rutherford (80) — film actress, in London.

May 26 : Manhar Barve (63) — Singer, in Bombay.

May 28 : H.R.H. the Duke of Windsor (77) — in Paris, was buried in the grounds of Windsor castle near London on June 5th.

May 29 : Prithviraj Kapoor (66) — Film actor, in Bombay.

June 28 : Prof. P. C. Mahalanobis (79) — Statistician, in Calcutta.

July 15 : Bakshi Ghulam Mohammad (65) — former Prime Minister of Jammu & Kashmir, in Srinagar.

July 17 : Indulal Yagnik (82) — Veteran Gandhian, in Ahmedabad.

July 20 : Geeta Dutt (41) — Playback singer, in Bombay.

July 21 : Marshall Lin Piao (63) — one time designate successor of Chairman Mao Tse-tung, officially declared dead, in an air crash over Mongolia while fleeing to Moscow on September 12, 1971.

July 21 : H.M. King Jigme Dorji Wangchuk of Bhutan (43) — in Nairobi, was cremated after 99 days on October 28th, in Bhutan.

July 28 : Charu Mazumdar (56) — Chairman, Communist Party of India (Marxist Leninist-Naxalite), in Calcutta.

July 31 : Paul-Henri Spaak (73) — former Prime Minister of Belgium, in Brussels.

Aug. 24 : Kavignar Namakkal V. Ramalingam Pillai (85) — Poet Laureate of Tamil Nadu, in Madras.

Aug. 26 : Sir Francis Chichester (70) — British Yatchman, in Plymouth, UK.

Sept. 6 : Ustad Allauddin Khan (110) — Musician (Sarod player), in Maihar, Madhya Pradesh.

Sept. 16 : Kawabata Yasunari (72) — Nobel prize winning Japanese author, in Yokohama, Japan (suicide).

Sept. 19 : Sir Francis Low (78) — former Editor of The Times of India, in London.

Oct. 25 : A. K. Chanda (70) — former Comptroller and Auditor General of India, in Delhi.

Oct. 30 : Sant Fateh Singh (61) — Akali leader, in Amritsar.

Nov. 1 : Ezra Pound (87) — American Poet, in Venice, Italy.

Dec. 3 : Mohan Rakesh (48) — Hindi Playwright, in Delhi.

Dec. 9 : Louella Parsons (91) — American film columnist, in Santa Monica, California, U.S.A.

Dec. 12 : Nandlal Jalan (56) — Industrialist, in Calcutta.

Dec. 25 : C. Rajagopalachari (94) — First Governor General of India, Bharat Ratna 1954, in Madras.

Dec. 26 : Dr. A. A. Ansari (64) — former Governor of Orissa, in Delhi.

Dec. 26 : Harry Truman (88) — 33rd U.S. President, in Kansas City, U.S.A.

Dec. 28 : Lester Pearson (75) — former Canadian Prime Minister, in Ottawa, Canada.

Dec. 28 : Hafiz Ali Khan (95) — Musician (Sarod player), in Delhi.

BILLS PASSED BY PARLIAMENT

Mar. 26 : Rajya Sabha passed the *Wild Life Protection Bill.*

Apr. 1 : The Medical Termination of Pregnancy Act-1971 came into force.

Apr. 3 : Rajya Sabha passed the Maternity Benefit (Amendment Bill).

Apr. 6 : Rajya Sabha passed the Industrial Disputes Amendment Bill.

Apr. 11 : The Rajya Sabha passed a bill to set up the *Marine Products Export Development Authority* under the control of the Union Government.

May 23 : The Lok Sabha passed a bill empowering the government to call up professionals under 30, like doctors and engineers, for defence and national service. Rajya Sabha passed this *National Service Bill* 1972 on 29-5-72.

May 25 : A bill to extend the Drugs and Cosmetics Act to Jammu & Kashmir was passed by Rajya Sabha.

May 30 : The Rajya Sabha passed the Salaries and Allowance of Members of Parliament (Amendment) Bill.

June 1 : The Lok Sabha passed a bill to curb the activities of organisations which impart Paramilitary training for violent purposes or indulge in divisive propaganda on communal, linguistic or regional lines. The same was passed by Rajya Sabha on 3-6-72.

June 31 : The Rajya Sabha passed the Indian Telegraph Amendment Bill 1972. The Bill provides for the interception of telegraph messages in a public emergency or in the interest of public security and safety.

July 31 : Rajya Sabha passed the Rice Milling Industry (Regulation) Amendment Bill, which provided for the extension of the Rice Milling Industry (Regulation) Act, 1958 to Jammu & Kashmir.

Aug. 3 : The Lok Sabha passed the Gratuity Bill under which a break in service, owing to an illegal strike, will be condoned while computing the gratuity.

Aug. 4 : A bill seeking to nationalise 214 coking coal mines and 12 coke oven plants was passed by the Lok Sabha.

Aug. 9 : Lok Sabha passed a bill enabling the people of Jummu & Kashmir to appeal to the Supreme Court against long and life term sentences by the High Court.

Aug. 14 : Rajya Sabha Passed the Diplomatic Relations (Vienna Convention) Bill as passed by the Lok Sabha.

Aug. 17 : The Lok Sabha passed the Income Tax (Amendment) Bill, which made it clear that wealth tax payments could not be allowed as a business expense deduction for computation of taxable income.

Aug. 18 : The Lok Sabha passed the Taxation Laws (Amendment) Bill 1972. Rajya Sabha passed the same on 23-8-72. This was passed to combat tax evasion through acquisition by the Government of immovable property where the declared value is less than "the fair market value".

Aug. 21 : Parliament had approved the Victoria Memorial (Amendment) Bill, which provided for a central minister being a trustee of the memorial instead of the President of India.

Aug. 22 : The Dentists (Amendment) Bill secured the Parliamentary approval in Lok Sabha.

Aug. 22 : The Lok Sabha passed the Indian Iron and Steel Company (Taking over of Management) Bill.

Rajya Sabha passed it on 26-8-72.

Aug. 22 : The Constitution (Thirtieth) Amendment Bill (1972) was passed by the Rajya Sabha. It sought to substitute the inherent merit of a case for property value as a criterion for a right to appeal to the Supreme Court.

Aug. 25 : A bill seeking to prevent smuggling of and fraudulent dealing in antiques was passed by the Lok Sabha.

Aug. 29 : The Rajya Sabha passed the Delhi University (Amendment) Bill, which empowered the University to make new statutes or amend the existing ones.

Aug. 29 : Rajya Sabha passed the Rulers of Indian States (Abolition of Privileges) Bill 1972.

Aug. 30 : The Lok Sabha passed the Indian Copper Corporation (Acquisition of Undertaking) Bill. Rajya Sabha passed the same on 4-9-72.

Aug. 30 : Parliament passed the Mines and Minerals (Regulation and Development) Amendment Bill, which empowered the central government to terminate a mining lease in public interest and grant fresh lease to a government owned company or corporation.

Sept. 2 : The Lok Sabha passed the ICS Privileges Abolition Bill as a follow up of the 28th amendment of the Constitution.

Sept. 2 : Rajya Sabha passed the General Insurance Business Nationalisation Bill. Lok Sabha has passed it earlier on 28-8-72.

Sept. 3 : The Rajya Sabha returned the Appropriations (No. 4) Bill 1972, authorising payment of Rs. 489,850,000 from the consolidated Fund of India for the services of Financial year 1972-73. (Among other things it included Rs. 107 million to be paid to the former princes, and 50 million to the general insurance companies now nationalised.)

Oct. 20 : The Lok Sabha passed a bill for the acquisition of the undertaking of Richardson and Cruddas Ltd. and vesting its shares in a new government company.

Nov. 13 : The Lok Sabha passed the Central Sales Tax Amendment Bill. This was passed to plug loopholes in sales tax collection.

Nov. 28 : The Rajya Sabha passed the bill to provide for the extension of Diplomatic and Consular officers (Oaths and fees) Act, 1948 to Jammu & Kashmir.

Dec. 5 : The Lok Sabha passed the Payment of Bonus (Amendment) Bill. The bill replaced the ordinance under which minimum bonus was raised from 4 to 8·33 per cent.

Dec. 13 : The Rajya Sabha passed the code of Criminal Procedure Bill. (To ensure that the investigations in the trial of cases was expeditious and fair.)

Dec. 15 : The Lok Sabha passed the Industrial Finance Corporation (Amendment) Bill, which will enable IFC to assist industrial ventures in backward areas.

Rajya Sabha passed it on 20-12-72.

Dec. 19 : Lok Sabha passed the Indian Tariff (Amendment) Bill. This bill was passed in order to continue or discontinue tariff protection to certain Dye-intermediates.

Dec. 19 : Rajya Sabha passed the Delimitation Bill, (It had been passed by the Lok Sabha earlier) to set up a commission to readjust Parliamentary and Assembly Constituencies and allocate number of seats.

ECONOMIC

Jan. 6-17 :	A High Power economic delegation from Poland visited India.
Feb. 29 :	An official Hungarian delegation led by Dr. Gyala Szekar, Minister of Heavy Industries, arrived in Delhi.
Mar. 23 :	Argentina devalued its currency Peso from 5 peso to 8 peso a U. S. dollar.
Mar. 25 :	The 45th annual session of FICCI was held in New Delhi.
Mar. 31 :	First All India Conference on Consumer Protection Organised by Consumer Guidance Society held in Bombay.
Apr. 8 :	Bank of France cut its bank rate from 6 to 5·75 per cent.
May 11 :	Pakistan devalued its currency from 4·75 Pakistan rupees to 11 Pakistan rupees to a U.S. dollar.
June 23 :	Britain allows the Pound Sterling to float.
July 10 :	Sri Lanka rupee was devalued to fix Sterling-rupee parity at 15.60 rupees per pound.
July 26 :	A World Bank team in New Delhi.
Oct. 10 :	Denmark cut its bank rate from 8 per cent to 7 per cent.
Nov. 3 : to Dec. 17 :	Asia Fair 1972 was held in New Delhi.

STATE ASSOCIATIONS

ANDHRA PRADESH

COMMERCIAL

Agricultural Machinery and Appliances Association, Andhra Pradesh, 141, Rashtrapati Rd., Secunderabad 500003.

Animal Feeds Manufacturers' Association, C/o Feeds and Farms, 1-7-1072, Main Rd., Musheerabad, Hyderabad 500020.

Automobile Association of Southern India, 60, Mahatma Gandhi Rd., Secunderabad 500003.

Automobile Dealers' Association, Andhra Pradesh, 15-9-572, Siddiamber Bazar, Hyderabad 500012.

Builders' Association of India, Red Hills, Hyderabad 500004.

Chemists and Druggists Association, Andhra Pradesh, IMA Bldg., Isamiah Bazar, Hyderabad 500027.

Computer Society of India, C/o Research & Deveolpment Laboratory, Hyderabad 500005.

Co-operative Marketing Federation, Ltd., Andhra Pradesh State, 5-2-68, Jambagh, Mozamshashi Market, Hyderabad 500001.

Corrugated Box Mfrs. Association, Andhra Pradesh, Shankerlal Bldg., Abid Rd., Hyderabad 500001.

Dyes & Chemical Merchants' Association, Secunderabad, 1629, Tobacco Bazar, Secunderabad 500003.

Electrical Dealers' Association, Vijayawada, Vijayawada 520001.

Export Merchants' Association, Eluru Bazar, Guntur 522001.

Fertilisers & Insecticides Dealers' Association, Guntur 522001.

Foundries Association, Andhra Pradesh State, C/o Hyderabad Iron and Steel Works Ltd., Ind. Area, Azamabad, Hyderabad 500020.

Graphite Crucible Manufacturers' Association, All India, Rajahmundry 533101.

Handloom Weavers Central Co-op. Society Ltd., Hyderabad, 3-5-770, Narayanguda, Hyderabad 500001.

Hotels Association, Andhra Pradesh, 93, Sarojini Devi Rd., Secunderabad 500003.

Hotel Owners' and Confectioners' Association, Hyderabad, 11-6-242, Nampally, Hyderabad 500001.

Industrial Estate Manufacturers' Association, Industrial Estate, Sanatnagar, Hyderabad 500018.

Iron and Steel Merchants' Association, Secunderabad-Hyderabad, 7940, Ranigunj, Secunderabad 500003.

Kirana Merchants' Association, Hyderabad, 15-7-502, Begum Bazar, Hyderabad 500003.

Materials Management Association, 6486-90, Rashtrapati Rd., Secunderabad 500003.

Medical Representatives Assocn., Andhra Pradesh, Prakasam Rd., Governorpet, Vijayawada 520001.

Motor Merchants' Association, Andhra, Prakasam Rd., Governorpet, Vijayawada 520001.

Motor Merchants' Association, Hyderabad State, Mahatma Gandhi Rd., Secunderabad 500003.

Oil Seeds Development Council, Indian, Telhan Bhavan, Himayatnagar, Hyderabad 500029.

Oil Technologists' Association of India, Regional Research Laboratory, Hyderabad 500009.

Paper Merchants' Association, Andhra Pradesh, 3364, Rashtrapati Rd., Secunderabad 500003.

Pulp & Paper Technical Association, Indian, C/o A. P. Paper Mills, Rajahmundry 533101.

Printers' Association, Andhra Pradesh, 3-4-649 (Upstairs), Narayanguda, Hyderabad 500001.

Small Industries Association, Andhra Pradesh, Industrial Estate, Vijayawada 520001.

Soap Manufacturers' Association, Andhra Pradesh, 15-1-269, Goshamahal Rd., Topkhana, Hyderabad 500012.

Steel Re-Rollers Association, Andhra Pradesh, C/o Andhra Roller Flour Mills, Mustafa Bldg., Nizamshahi Rd., Hyderabad 500001.

Stock Exchange Ltd., Hyderabad, Bank St., Hyderabad 500001.

Tobacco Association, Indian, Guntur 522001.

Trades Association, Hyderabad, Singhvee Bhavan, Tilak Rd., Hyderabad 500001.

Trades Association, Secunderabad, 151, Sappers Lines, Secunderabad 500003.

CULTURAL AND SOCIAL

Child Welfare, Andhra Pradesh State Council for, 6-3-1186, Begumpet, Hyderabad 500016.

Children's Aid Society, Hyderabad, 3-6-438. Hardikar Bagh, Himayatnagar, Hyderabad 500001.

Cultural Relations with Foreign Countries, Society for, 156, Dewdi Nawab Ikram, Yakutpura, Hyderabad 500023.

Educational & Cultural Organisation of India, Youth, 301/2 RT, Saidabad Colony, Hyderabad 500036.

Family Planning Association, 5-1-227, Jambagh, Hyderabad 500001.

Indo-German Cultural Society, 208, Bibi Alawa, Hyderabad 500024.

Indo-Iraq Cultural Society, 17-6-674, Chawrasta, Bunglow Beni, Hyderabad 500024.

Kala Mandir, Bharat, 18/2, R. T. Chandulal Baradari, Hyderabad 500002.

Kalasagaram, 2/1, Rly. Quarters, R. R. C. Grounds, Secunderabad 500025.

Pravasandhra Mitra Samithi, 25/103, Buttaiahpet, Machilipatnam 521001.

Sangeeta Natak Akademi, Andhra Pradesh, Kala Bhavan, Saifabad, Hyderabad 500004.

Social Work, Indian Conference of, Red Hills, Hyderabad 500004.

Telugu Writers Conference, All India, 208, New Bhoiguda, Secunderabad 500003.

Tourist Information Centre, International, Maddiraddi Niwas, Jagannadhapuram, Machilipatnam 521001.

Young India Society, 5-8-544/1, Abid Rd., Hyderabad 500001.

EDUCATIONAL AND RESEARCH

Administrative Staff College of India, Bella Vista, Hyderabad 500004.

Provides training to senior executives from private and public sectors and Government. It also provides management consultancy service and conducts research in management problems.

Principal: N. P. Sen. *Directors:* Prof. Nakhil Bharat (*Consultancy*), Dr. B. L. Maheswari (*Research*), A. N. Sarin (*Studies*).

American Studies Research Centre, Hyderabad 500007.

Maintains a comprehensive library on American civilization for the benefit of Indian scholars and teachers. *Director:* Dr. Sylvan Schendler.

Archaeological & Agricultural Research Institute, Birla, 3-5-906, Himayatnagar, Hyderabad 500029.

Deaf, Training Centre for the Adult, Malkapet, Hyderabad 500036.

Defence Metallurgical and Research Laboratory, Yakutpura, Hyderabad 500033.

Engineers (India), Institution of, A. P. Centre, Khairatabad, Hyderabad 500004.

English & Foreign Languages, Central Institute of, Hyderabad 500007.

An autonomous Institute, set up by the Govt. of India for improving the teaching of English in the country, to provide for the study of English language and literature and to organise research and advance courses in the field.

The Institute awards Post-graduate and Research Diplomas in English Teaching and English Studies, produces textbooks and teaching materials, Radio lessons and tapes; offers extension and consultancy services to educational institutions; coordinates the activities of Regional and State English Language Teaching Institutes; organises seminars and conferences; runs an Information Centre; training of teachers of foreign languages at School/College/University level, specialized courses for training interpreters and translators in foreign languages; intensive as well as semi-intensive courses in foreign languages; research and production of materials in the field of teaching foreign languages to Indian students.

Historical Research Society, Andhra, Rajamundry 533101.

Instructors, Central Training Institute of, I. T. I. Bldg., Mallepally, Hyderabad 500001.

Kendra Sanskrit Vidyapeeth, Tirupathi 517501.

Management, Indian Chapter of Society for Advance of, Mushirabad, Hyderabad 500020.

Nutrition Research Laboratories, Tarnaka, Hyderabad 500007.

Oil Technological Research Institute, Anantapur 515001.

Run by the Govt. of Andhra Pradesh. It conducts research on vegetable oils, fats and allied products. Technical advice and service on problems relating to oil technology are offered.

Regional Research Laboratory, Hyderabad 500009.

Small Industry Extension Training Institute, Yuosufguda, Hyderabad 500038.

Objects: To provide training in small industry development, management and extension; to undertake research in related fields and to provide documentation service to the small industry.

Principal Director: P. D. Malgavkar.

Tool Design, Central Institute of, Balanagar, Hyderabad 500037.

ASSAM

COMMERCIAL

Industrial Estate Users' Association, Industrial Estate, Tinsukia 786125.

Manufacturers Association, Assam, Gopinath Bardoloi Rd., Silpukhuri, Gauhati 781003.

Motor Traders' Association, Gauhati, A. T. Rd., Gauhati 781001.

Plywood Manufacturers Association, Assam, Tinsukia 786125.

Tea Chest and Plywood Manufacturers Association, East India, Margherita.

CULTURAL AND SOCIAL

Sangeet Natak Academy, Assam, Kismet, Upland Rd., Shillong 793001.

EDUCATIONAL AND RESEARCH

Engineering and Technology, H. R. H. The Prince of Wales Institute of, Jorhat 785001.

Historical Institute, Narayani Handiqui, Gauhati 781001.

Pasteur Institute and Medical Research Institute, Shillong 793001.

BIHAR

COMMERCIAL

Cement Merchants' Association, Bihar, 55, Golghar, Patna 800001.

Coal Merchants' Association, Indian, P. B. No. 113, Jharia.

Co-operative Marketing Union Ltd., Bihar State, West Lawn, Patna 800001.

Industries Association, Bihar, Fraser Rd., Patna 800001.

Iron and Steel Registered Stock Holders Association, Bihar, Govind Mitra Rd., Patna 800004.

Paper Merchants' Association, Bihar, Yadav Bhavan, (Alam Kothi), Nayatola, Patna 800004.

Pipe Distributors' Association, Bihar, Govind Mitra Rd., Bankipore, Patna 800004.

Safety in Mines, National Council of, P. Box No. 82, Dhanbad 826001.

Soil Conservation Society of India, 15, Bayley Rd., Patna 800001.

Transport Users Association, Bihar, Shalimar Ahra, Patna 800003.

Wine Association, Bihar, Station Rd., Patna 800001.

CULTURAL AND SOCIAL

Nava Nalanda Mahavihara, Nalanda, Dist. Patna.

Social Welfare, Indian Council of, Dr. Annie Besant Rd , Patna 800004.

EDUCATIONAL AND RESEARCH

Cultural Studies, Indian Institute for, P. O. Mandar Vidyapith, Dist. Bhagalpur.

Engineers (India), Institution of, Huda House, Gandhi Maidan Rd., Patna 800001.

Foundry & Forge Technology, National Institute of, P. O. Hatia, Ranchi 834003.

Functions : Imparts industrially-oriented expertise training ; undertakes research on problems facing foundry & forge industry and consultancy services thereof ; developing new techniques for production, control & inspection of castings & forgings ; expects to set up a Documentation Centre for catering to informational, bibliographical and documentation needs of foundry & forge education and industry.

Director, Dr. K. B. Mehta.

Prakrit, Jainology and Ahimsa, Research Institute of, Vaishali, Dist. Muzaffarpur.

Research Institute, K. P. Jayaswal, Museum Bldgs., Patna 800001.

Rural Institute, Birouli, Dist. Darbhanga.

Silk Institute, Government, Bhagalpur 812001.

Vaccine Institute and Pasteur Institute, Government, Namkum, Ranchi 834001.

Yogoda Sat-Sanga Vidyalaya, Ranchi 834001.

DELHI

COMMERCIAL

Agricultural Association of India, C/o Indian Council of Agricultural Research, Krishi Bhavan, New Delhi 110001.

Agricultural Co-operative Marketing Federation Ltd., National, D-44, NDSE Part II, New Delhi 110049.

Agriculture Machinery Association of India, B-100, Defence Colony, New Delhi 110003.

Air Conditioning & Refrigeration Association, All India, D-180, Defence Colony, New Delhi 110003.

Automobile Association of Upper India, Lilaram Bldgs., 14-F, Connaught Place, New Delhi 110001.

Automobile Spare Parts Dealers Associations, Federation of All India, 3620/21, Netaji Subhas Marg, Delhi 110006.

Automotive Parts Merchants Association, 60, Guru Nanak Market, K. Gate, Delhi 110006.

Ayurvedic and Siddha Medicines, Federation of Manufacturers of, 91-A, Kamla Nagar, Delhi 110007.

Biscuit Manufacturers of India, Federation of, 17, Alipur Rd., Delhi 110006.

Booksellers and Publishers Association, All India, 7-L, Connaught Circus, New Delhi 110001.

Brick and Tile Manufacturers, Federation of All India, 1-B/21, Jhandewalan Extn., New Delhi 110055.

Chemical Importers and Dealers Association, All India Fine, 1309, Tilak Bazar, Delhi 110006.

Chemists Association, Delhi State, 1428, Chandni Chowk, Delhi 110006.

Chemists & Druggists, All India Federation of, A-463, Defence Colony, New Delhi 110003.

Cigarette Manufacturers' Association, Indian, Tobacco House, 2/26, Jhandewalan Extn., New Delhi 110055.

Chairman, Pratap Narsee ; *Hon. Secy.*, Roshanlal Jaswal.

Consumer Council of India, 13, Akbar Rd., New Delhi 110001. To promote, organise & assist in measures for consumer protection ; to study consumer problems and evolve remedies.

Director, Dr. S. Krishnamurthy.

Consumers' Union, Indian, C/o Dr. Jagjit Singh, Institute of Marketing & Management, 62-F, Sujan Singh Park, New Delhi 110003.

Co-operative Sugar Factories Limited, National Federation of, L-8, S. Extn., Part II, New Delhi 110049.

President : R. L. Shukla ; *Vice-President :* Dr. D. K. Patel ; *Secretary :* Gyan Chandra.

Co-operative Union Ltd., Indian, 20/2, North Rohtak Rd., New Delhi 110005.

Corrugated Box Mfrs. Association, Northern India, 4184, Gali Ahiram, Pahari Dhiraj, Delhi 110006.

Cottage Industries Association, Central, Janpath, New Delhi 110001.

Cotton Textile Mills Association, Northern India, Phelps Bldg., 9-A, Connaught Place, New Delhi 110001.

Delhi Industries, Federation of, 61/2, Raj Nagar, New Delhi 110060.

Diesel Generating Set Manufacturers' Association, 3/3A, Asaf Ali Rd., New Delhi 110001.

Distillers' Association, All India, H-37, Connaught Circus, New Delhi 110001.

President, M. Harischandra Prasad. *Vice-President*, S. P. Seth ; *Secretary*, O. N. Chandoke.

Electrical Dealers, Federation of Delhi, 1751, Electrical Market, Chandni Chowk, Delhi 110006.

Electrical Traders' Association, Delhi, 1548, Elec. Market, Chandni Chowk, Delhi 110006.

Employers, All India Organisation of, Federation House, New Delhi 110001.

Main Object : To promote and protect the industrial development of India by studying various problems relating to trade, industry and labour and advising the Central and State Governments suitably.

Secretary-General : G. L. Bansal ; *Jt. Secy.-General :* P. Chentsal Rao.

Export Organisations, Federation of Indian, Allahabad Bank Bldg., 17, Parliament St., New Delhi 110001.

Factory Owners' Federation, Delhi, Phelps Bldg., Connaught Place, New Delhi 110001.

Fertiliser Association of India, Near J. L. Nehru Univ., New Delhi 110057.

Fertiliser Co-operative Ltd., Indian Farmers, 4, Ring Rd., Lajpatnagar IV, New Delhi 110024.

It is a multiunit co-operative society established with the primary object of setting up plants for the manufacture of chemical fertilisers. The proposed projects of NPK and Urea will be at Kandla and Kalol in Gujarat State.

Managing Director : Paul Pothen.

Food Preservers' Association, All India, 2254, Rajguru Road, New Delhi 110055.

Foodgrain Dealers' Associations, Federation of All India, 3979, Naya Bazar, Delhi 110006.

Foreign Trade, Indian Institute of, H-24, Green Park Extn., New Delhi 110016.

Its principal activities include (1) training of personnel (2) general research (3) overseas market studies, area surveys & commodity studies and State Export Potential Surveys and (4) collection and dissemination of information relating to India's foreign trade.

Garments Co-op. Industrial Societies Ltd., Delhi, Karampura Rd., Motinagar, New Delhi 110015.

Glass Manufacturers' Federation, All India, H. Block, Gobind Mansion, Connaught Circus, New Delhi 110001.

Handicrafts Exporters' Association, 32, Park Area, Karol Bagh, New Delhi 110005.

Hotel and Restaurant Association of India, Federation of, 15-A, Nizamuddin West, New Delhi 110013.

Industrial Co-operatives, National Federation of, F-24 NDSE, Part I, New Delhi 110049.

Objects : Exports and inland marketing of co-operative products. Import of raw materials.
Managing Director : S. Balraj.

Industrial Relations, Shri Ram Centre for, 5, Sadhu Vibhag Marg, New Delhi 110005.

Instrument Manufacturers and Dealers Association, All India, 26, Asaf Ali Rd., New Delhi 110001.

Investment Centre, Indian, Jeevan Vihar Bldg., Parliament St., New Delhi 110001.

Objects : To stimulate, within the ambit of Govt.'s policy and procedures, the flow of foreign private capital, technological skills and know-how into India and to assist the promotion of Indian investment in foreign countries.

An Entrepreneurial Guidance Bureau has also been set up in the Centre to guide entrepreneurs regarding the policies and procedures relating to the establishment of fresh industrial capacity by providing the relevant information and advice. A branch of the Entrepreneurial Guidance Bureau has also been established at 19, N. Subash Rd., Calcutta 700001, to cater to the needs of the Eastern Region entrepreneurs.

The Centre has its branch offices in New York at 708, Third Avenue, New York, N. Y. 10017, U.S.A., in Duesseldorf (Federal Republic of Germany) at Karlstrasse 76, Duesseldorf-4, and in London at India House, Aldwych, London W.C. 2 (U.K.).
Chairman : R. S. Bhatt ; *Executive Director :* K. J. George.

Iron and Hardware Merchants' Association, Delhi, 3610, Loha Bhavan, Chawri Bazar, Delhi 110006.

Iron and Steel Exporters Association, Japan, W-50, Greater Kailash, New Delhi 110048.

Machinery Merchants' Association, General, 76, Shraddhananda Marg, Delhi 110006.

Manufacturers, Federation of Indian, 6516, Qutab Rd., New Delhi 110055.

Manufacturers Organisation, All India, 30, Ferozeshah Rd., New Delhi 110001.

Mercantile Association, Delhi Fents, 1090, Kucha Natwan, Chandni Chowk, Delhi 110006.

Mercantile Association, Delhi Hindustani, 641/1213, Chandni Chowk, Delhi 110006.

Mineral Industries, Federation of Indian, 7, N.D.S.E; Part I, New Delhi 110049.

Motor Dealers' Association, Delhi, Post Box 1098, Kashmere Gate, Delhi 110006.

Newspaper Society, Indian and Eastern, I.E.N.S. Bldg., Raffi Marg, New Delhi 110001.

Oil Industry Association, All India Non-Edible, 196/7, Than Singh Rd., New Delhi 110005.

Paint Merchants' Association, Delhi, C/o Lalit & Co., Fatehpuri, Delhi 110006.

Paper Merchants Association, Delhi, IX/65, Chawri Bazar, Delhi 110006.

Pesticides Association of India, 20, Ring Road, Lajpatnagar, IV, New Delhi 110024.

Plastic Cable Manufacturers' Association, Delhi, Amar Bhavan, Behind State Bank, Delhi 110006.

Plywood & Panel Industries, Federation of Indian, D-21, Defence Colony, New Delhi 110024.

Printers, All India Federation of Master, E-14, New Delhi South Extn., Market, Part II, New Delhi 110049.

Printers' Association, Delhi, 26-A, New Central Market, New Delhi 110001.

Publishers & Booksellers Associations in India, Federation of, A-84A, N.D.S.E. II, New Delhi 110049.

Radio & Electronics Association, All India, 21, Ansari Rd., Daryaganj, Delhi 110006.

Radio & Sound Equipment Mfrs'. Association, Small Scale, 1204, Nai Wala No. 5, Karol Bagh, New Delhi 110005.

Refrigeration Trades Association, C/o National Refrigeration Works, 3, Netaji Subhash Marg, Delhi 110006.

Roller Flour Millers' Federation of India, 6, Todarmal Lane, Bengali Market, New Delhi 110001.

Rolling Stock Export Association, 36, Janpath, New Delhi 110001.

Scientific Equipment Trade Association, C/o CZ Instruments (India) P. Ltd., Akash Deep, Barakhamba Rd., New Delhi 110001.

Shippers Council, All India, Federation House, New Delhi 110001.

Small Industries of India, Federation of Associations of, 23/B, 2, Rohtak Rd., New Delhi 110005.

Stationery Manufacturers' Association, Delhi, C/o Royal Khalsa Stationery Mart, Nai Sarak, Delhi 110006.

Steel Re-rollers Association, All India, 1, Ramdwara Rd., Paharganj, New Delhi 110055.

Sugar Mills Association, Indian, A-7, NDSE Co-op., Colony, South Extn., Part 1, Ring Rd., New Delhi 110049.

Tractor Parts Merchants Association, All India, 39-B/1532, Shiv Ashram, S. P. Mukherji Marg, Delhi 110006.

Trade Associations, Federation of Sadar Bazar, 665, St. No. 11, Sadar Bazar, Delhi 110006.

Traders Association, New Delhi, 21-B, Connaught Place, New Delhi 110001.

Vegetable Oil Traders Association, Delhi, 73, Memwali Gali, Katra Baryan, Delhi 110006.

CULTURAL AND SOCIAL

Adimjati Sevak Sangh, Bharatiya, Link Rd., Jhandewalan, New Delhi 110055.

Adult Education Association, Indian, 17-B, Indraprastha Estate, New Delhi 110001.

Afro-Asian Solidarity, Indian Association for, 6, Jamuna Bhavan, Asaf Ali Rd., New Delhi 110001.

Anglo-Indian Association, All India, Bombay Life Bldg., Connaught Circus, New Delhi 110001.

Blind Relief Mission, Sant Parmanand 18, Alipore Rd., Delhi 110006.

Blind Relief Society, All India, 2F, Lajpatnagar, New Delhi 110024.

Blood Bank Organisation, 4, Pusa Rd., New Delhi 110005.

Boy Scouts Association, All India, 7, Jangpura B Extn., Mathura Rd., New Delhi 110014.

Cattle Welfare Society, All India, Cement Kuti, 58, Rangpura, New Delhi 110005.

Charitable Society, Smt. Shanta Kejariwal Smarak, Jaipuria Bldg., Kolhapur Rd., Delhi 110007.

Child Welfare, Indian Council for, 4, Rouse Avenue, New Delhi 110001.

Children's Film Society — India, Sapru House, New Delhi 110001.

Citizen's Advice Bureau, Community Hall, E. Patel Nagar, New Delhi 110008.

Correctional Services, Central Bureau of, Block-1, Wing 7, Ramakrishnapuram, New Delhi 110022.

Culture, International Academy of Indian, J-22, Hauzkhas Enclave, New Delhi 110016.

Cultural Centre, International, 16, Hailey Rd., New Delhi 110001.

Cultural Organisation, National, A 20/1, Lodi Rd., New Delhi 110003.

Cultural Relations, Indian Council for, Azad Bhavan, Indraprastha Estate, New Delhi 110001.

An autonomous organisation entirely financed by the Govt. of India to establish and strengthen cultural relations with other countries; branch offices in Bombay, Calcutta and Madras, Cultural Centres in Georgetown, Guyana; Suva, Fiji & San Francisco, U.S.A.

President : Min. for External Affairs; *Secretary :* Inam Rahman.

Cultural Relations, World Council for, 4517, Dai Wara, Nai Sarak, Delhi 110006.

Dairy Science Association, Indian, W-111 A, Greater Kailash, New Delhi 110048.

Deaf, All India Federation of the, Theatre Communication Bldg., Connaught Place, New Delhi 110001.

Developing Societies, Centre for the Study of, 29, Rajpur Rd., Delhi 110006.

Drama and Asian Theatre Institute, National School of, Rabindra Bhavan, Ferozeshah Road, New Delhi 110001.

Family Planning, National Institute of, L-17, Green Park, New Delhi 110016.

A para-governmental institution established for the purpose of strengthening various technical aspects of the national family planning programme.

Director : Prof. V. Dutt Mullick.

Family Planning Association, 15, Alipur Rd., Delhi 110006.

Fine Arts & Crafts Society, All India, Old Mill Road, Rafi Marg, New Delhi 110001.

Ford Foundation, The, 55, Lodi Estate, New Delhi 3. Assistance in the form of institutional grants directed toward human and natural resources development in rural and urban India, particularly in the fields of agriculture, development planning and management, population and education.

Gandhi Smarak Nidhi, Rajghat, New Delhi 110001.

Harijan Sevak Sangh, All India, Kingsway, Delhi 9.

Objects : To eradicate untouchability by truthful and non-violent means; to serve Harijans so as to promote their moral, social and material welfare.

During 1971-72 the Sangh got opened 901 temples, 207 'dharamshalas', 1048 wells and tanks, and 1733 hotels and restaurants. It persuaded 843 barbers and 397 washermen to serve Harijans.

It conducts 114 hostels which include 28 for girls. Besides it conducts 3 Industrial Training Centres, 137 Co-operative societies and 195 'balwadis', 'Sanskar Kendras', etc.

President : Viyogi Hari, *Secretary :* Jiwanlal Jairamdas.

Hostels Association of India, Youth, No. 2, East Park Rd., Karol Bagh, New Delhi 110005.

Indian Standards Institution, Manak Bhavan, 9, Bahadur Shah Zaffar Marg, New Delhi 110001.

Aims and objects : Preparation of standards relating to products, commodities, etc, and their promotion on national and international basis. The Institution operates, under an Act of Parliament, ISI Certification Marks Scheme under which items manufactured in conformity with the relevant Indian Standards are certified with ISI Mark as a third-party guarantee to the purchaser. The Institution also assists in developing in-plant standardization in industrial units, promotes educational utilization of Indian Standards, and imparts training in industrial standardization to scientists and technologists from developing countries.

Director-General : S. K. Sen.

Indo-GDR Friendship Association, All India, Theatre Communication Bldg., Connaught Place, New Delhi 110001.

Indo-Iran Society, 18, Tilak Marg, New Delhi 110001.

Indo-Soviet Cultural Society, Jamna Bhavan, Asaf Ali Rd., New Delhi 110001.

Indo-U. S. Cultural Association, Theatre Communication Bldg., Connaught Place, New Delhi 110001.

International Centre, India, 40, Lodi Estate, New Delhi 110003.

Japan Information Centre, 10, K. Gandhi Marg, New Delhi 110001.

Lead/Zinc Information Centre, Indian, B5/27, Safdarjung Dev. Area, New Delhi 110016.

Library Association Indian, C/o Delhi Public Library, S. P. Mukherji Marg, Delhi 110006.

Max Mueller Bhavan, Indo-German Cultural Centre, 3, K. Gandhi Marg., New Delhi 110001.

Music Dance & Dramatics, Delhi Institute of, V-13, Rajouri Garden, New Delhi 110015.

Natya Sangh, Bharatiya, 34, New Central Market, Connaught Circus, New Delhi 110001.

Nehru Museum & Library, Teen Murti Marg, New Delhi 110001.

Peace Council, All India, 6, Jamuna Bhavan, Asaf Ali Rd., New Delhi 110001.

Ramakrishna Mission, Ramkrishna Ashram Marg, New Delhi 110001.

Ravidas Sahitya Parishad, Akhil Bharatiya, Sri Guru Ravidas Mandir, Sawan Park, Delhi 110023.

Red Cross Society, Indian, 1, Red Cross Rd., New Delhi 110001.

Rockefeller Foundation, The, 17, Kautilya Marg, Chanakyapuri, New Delhi 110021.

Since its inception in 1913 assistance has been provided to several institutions in such fields as medical education, public health, agriculture, humanities and social sciences. The total amount of grants including fellowships and travel grants made by the Foundation in India upto June 30, 1972 was reported to be $21.031.440.

Officer-in-Charge & Field Director, Indian Agricultural Programme : Dr. Ordway Starnes.

Samarasa Sudha Sanmarga Sangam, B-7/58/1, Safdarjung Enclave, New Delhi 110016.

Sant Nirankari Mandal, Sant Nirankari Colony, Delhi 110009.

Aims and Objects: To promote the feelings of Universal Brotherhood and equality amongst all human beings without caste, creed and colour through realisation of God and to develop equal respect for all the prophets and their holy scripts.

Scientific Method, Asian Congress for, D-353, Defence Colony, New Delhi 110003.

Scouts and Guides, Bharat, 16, Ring Road, Indraprastha Estate, New Delhi 110001.

Scouts Association, All India Boy, 7, Jangpura B Extention, Mathura Rd., New Delhi 110014.

Servants of the People Society, Lajpat Bhavan, Lajpat Nagar, New Delhi 110024.

Sewak Samaj, Bharat, 9-A, Theatre Communication Bldg., Connaught Place, New Delhi 110001.

A national social organisation, non-political and non-official in character, started in 1952 to mobilise people's support, co-operation and participation for the success of the national plans. The Samaj has a youth wing called Bharat Sewak Samaj.

The Samaj is now mainly engaged on the programme of Relief and Reconstruction including Food for Work Projects, such as construction of wells, tanks, bunds, irrigation channels, roads, small school buildings, Panchayat Ghars, etc. and establishment of Model Community Farms and Ashrams for carrying on social welfare activities in the villages round about them, on the lands donated by individual land owners and village Panchayats. The activities of the Samaj also cover the field of Education & Medical and Slum Service.

Sindhi Cultural Society, 23/51, Rajinder Nagar, New Delhi 110060.

Social Guidance, Institute for, 2-F, Lajpat Nagar, New Delhi 110024.

Social Institute, Indian, Lodi Rd., New Delhi 110003.

Purpose: Research; publications; labour welfare and management courses; training in co-operation; promotion and organisation of socio-economic projects; family life education. *Publication: Social Action* (Quarterly).

Sports, All India Council of, C/o Ministry of Education, New Delhi 110001.

St. John Ambulance Association (India) and St. John Ambulance Brigade (India), 1, Red Cross Rd., New Delhi 110001.

Objects: Instruction in First Aid, Home Nursing and allied subjects and relief of suffering of the sick and injured in peace and war.

Commissioner-in-Chief and Secretary-General: Maj.-Gen. S. S. Maitra.

Swami Sivananda Cultural Association, Sivananda Bhavan, Amar Colony, Lajpat Nagar IV, New Delhi 110024.

United Nations Association, Indian Federation of, 15, Janpath Barracks, New Delhi 110001.

Women's Conference, All India, Sarojini House, 6, Bhagwandass Rd., New Delhi 110001.

Aims and Objects: To work for a society based on the principles of social justice, personal integrity and equal rights and opportunities for all. To secure recognition of the inherent right of every human being to work and to the essentials of life. To work actively for the general progress and welfare of women & children and to support the claim of every citizen to the right to enjoy basic civil liberties.

President: Mrs. K. Lakshmi Raghuramaiah.

Women in India, National Council of, F/16, Hauz Khas Enclave, New Delhi 110016.

World Co-operation and Cultural Relations, Indian Federation for, 2699/2, St. 13, Ranjit Nagar, New Delhi 110008.

YMCA's of India, National Council of, Massey Hill, Jai Singh Rd., New Delhi 110001.

Young Women's Christian Association of India, K-13, Lajpatnagar II, New Delhi 110024.

Youth Welfare Society, J. H. Bldg., Chandni Chowk, Delhi 110006.

PROFESSIONAL AND MEDICAL

Aeronautical Society of India, 13-B, Indraprastha Estate, New Delhi 110001.

Bar Council of India, AB/21, Mathura Rd,, New Delhi 110016.

Chartered Accountants of India, Institute of, Post Box 268, Indraprastha Marg, New Delhi 110001.

President: R. K. Khanna. *Vice-Pres.:* S. K. Gupta. *Secretary:* C. Balakrishnan.

Company Secretaries of India, Institute of, 1, Rani Jhansi Rd., New Delhi 110055.

The only body sponsored by the Dept. of Company Affairs for the promotion and development of the profession of Company Secretaries in India.

President: R. Krishnan. *Secretary:* T. P. Subbaraman. *Adm. Officer:* N. S. Santhanam.

Consulting Engineers (India), Association of, 14, Asaf Ali Rd., New Delhi 110001.

Engineering Association of India, A-6, N.D. South Extension, Part II, New Delhi 110049.

Engineering Association of Northern India, 161, Kamla Market, New Delhi 110001.

Engineers (India), Institution of, Bahadur Shah Zaffar Marg, Near Tilak Bridge, New Delhi 110001.

Entomological Society of India, Indian Agricultural Research Institute, New Delhi 110012.

Farmers' Association, Young, AI, Nizamuddin West, New Delhi 110013.

Free Trade Unions—Asian Regional Organisation, International Confederation of, (ICFTU-ARO), P-20, Green Park Extn., New Delhi 110016.

Asian organization of free democratic trade unions, independent of all external domination and promoting interests of working people and assuring dignity of labour in Asia, affiliating twenty-six trade union organisations from fourteen Asian countries with more than sixteen million members.

President: P. P. Narayanan; *Regional Secy.:* V. S. Mathur.

Genetics & Plant Breeding, Indian Society of, Indian Agricultural Research Institute, New Delhi 110012.

Incorporated Accountants & Auditors of India, Society of, Daryaganj, Delhi 110006.

Indian & Eastern Newspaper Society, IENS Bldg., Rafi Marg, New Delhi 110001.

International Law, Indian Society of, 7, Scindia House, New Delhi 110001.

Interpreters' Association, Indian Conference, B-7/58/1, Safdarjung Enclave, New Delhi 110016.

Inventions Promotion Board, 39, Ring Rd., New Delhi 110024.

Established in 1960 by the Govt, of India for promoting development of inventions. The cash awards range from Rs. 500 to Rs. 10,000 for accomplished inventions besides financial assistance upto Rs. 25,000 and technical guidance for development of useful inventive ideas and patenting of inventions. Publications: *Invention Intelligence* (Monthly); *Awishkar* (Monthly).

Director: I. K. Puri.

Lalit Kala Akademi, National Academy of Art, Rabindra Bhavan, New Delhi 110001.

Its aim is to promote painting, sculpture, architecture and applied arts.

Law Institute, Indian, Bhagwandas Rd., New Delhi 110001.

Management Association, All India, 29, Nizam-Ud-Din East, New Delhi 110013.

President: Dr. R. S. Tarneja; *Director-General:* B. K. Nehru.

Managements Association, Delhi, 1121, Asaf Ali Rd. New Delhi 110001.

Medical Association, Indian, I.M.A. House, Indraprastha Marg, New Delhi 110001.

Medical Representatives Association, Delhi State, R-48, Greater Kailash, New Delhi 110048.

Mentally Retarded, Federation for the Welfare of, C/o Mrs. Char, Model School, Lajpatnagar, New Delhi 110024.

Moral & Social Hygiene in India, Association for, 4, Deen Dayal Upadhyaya Marg, New Delhi 110001.

Aims & Objects: To eradicate prostitution and other evils in relation thereto. To establish, maintain and assist Protective Homes, and other Institutions for the shelter, training and rehabilitation of women and children in moral danger. To establish, maintain and assist Health Clinics for diagnosis, treatment and mass education for venereal diseases control.

Motion Pictures Association, 52/55, Mangal Market, Chandni Chowk, Delhi 110006.

Motor Unions Congress, All India, 16-A, Asaf Ali Rd., New Delhi 110001.

Newspaper Editors' Conference, All India, 50, Theatre Communication Bldg., Connaught Place, New Delhi 110001.

Newspaper Employees' Federation, All India, 29, New Central Market, Connaught Place, New Delhi 110001.

Nurses' Association of India, Trained, L-16, Green Park, New Delhi 110016.

Oil Technologists Association of India, DCM Chemical Works, Najafgarh Rd., New Delhi 110015.

Plant Morphologists, International Society of, Dept. of Botany, Univ. of Delhi, Delhi 110006.

Population, Indian Association for the Study of, C/o Dr. Ashish Bose, Institute of Economic Growth, Univ. Enclave, Delhi 110007.

Population Council of India, 53, Lodi Estate, New Delhi 110003.

Press Council of India, 10, Janpath, New Delhi 110001.

The Council functions as a quasi-judicial body for adjudication on complaints against newspapers, news agencies or journalists allegedly offending against journalistic ethics or public taste. It also considers complaints from newspapers, individuals or associations against Government or any person, group or organisation of interference with the free functioning of the press.

Chairman: Justice N. Rajagopala Ayyangar; *Secretary:* B. P. Mathur.

Press Institute of India, Sapru House Annexe, Barakhamba Rd., New Delhi 110001.

Set up in 1963 by Indian newspapers to help the press improve itself through regular seminars, workshops, courses, consultancies, field study tours, publications, research studies etc. for young promising editorial and managerial personnel.

Director: Chanchal Sarkar.

Productivity Council, Delhi, 1 E/2, Jhandewalan Rd., New Delhi 110055.

Productivity Council, National, 38, Golf Links, New Delhi 110003.

NPC has six Regional Directorates (Bangalore, Bombay, Calcutta, Kanpur, Ludhiana and Madras) covering all the principal industrial areas of the country. NPC specialists at these regional centres serve Local Productivity Councils, professional and educational institutions, industrial, business, administrative and public utility establishments.

Executive Director: Dr. G. R. Dalvi.

Psycho-Physical Therapy, Yoga Institute of, 2F, Lajpatnagar, New Delhi 110024.

Road Congress, Indian, Jamnagar House, Mansingh Rd., New Delhi 110011.

Road Transport Undertaking, Association of State, 534, Transport Bhavan, New Delhi 110001.

Rural Development, Association of Voluntary Agencies for, A23, Kailash, New Delhi 110048.

Sahitya Akademi (National Academy of Letters), Rabindra Bhavan, Ferozeshah Rd., New Delhi 110001.

The Akademi awards prizes for outstanding literary works in 18 Indian languages, including English.

The Akademi publishes a quarterly journal *Indian Literature* (in English) and a six-monthly *Samskrita Pratibha* (in Sanskrit), besides a monthly news bulletin in English.

President: Dr. S. K. Chatterji; *Vice-Pres.:* Dr. K. R. Srinivasa Iyengar.

Sangeet Natak Akademi, Rabindra Bhavan, Ferozeshah Rd., New Delhi 110001.

The Akademi gives grants to various performing arts organisations, promotes research, sets up training institutions, organises seminars, festivals and subsidizes the publications on music, dance and drama. It has instituted a pilot research scheme in the acoustics of music and has undertaken an extensive programme for preservation of folk arts.

It runs National School of Drama with a 3-year broad-based training course in dramatics. It also runs — Jawaharlal Nehru Manipur Dance Academy — for the training in Manipuri dance at Imphal and — Kathak Kendra — for training in Kathak dance in Delhi.

It gives every year 12 Awards to the eminent artistes in the fields of music, dance and drama.

President: K. P. S. Menon. *Secretary:* Dr. Suresh Awasthi.

Scheduled Castes, Scheduled Tribes and Other Backward Classes, All India Federation of, 118, Than Singh Nagar, New Delhi 110005.

Science Academy, Indian National, Bahadur Shah Zaffar Marg, New Delhi 110001.

Objects: Promotion of scientific knowledge, co-ordination between various scientific bodies, safeguarding of the interests of scientists in India, representing internationally the scientific work of India; acting as the National Research Council of India for undertaking national and international scientific work.

President: Dr. D. S. Kothari; *Vice-Presidents:* Dr. B. P. Pal, Dr. C. R. Rao; *Treasurer:* Dr. A. R. Verma; *Foreign Secretary:* Dr. B. D. Nagchaudhuri; *Secretaries:* Dr. V. G. Bhide, Dr. A. B. Joshi; *Editors of Publications:* Prof. F. C. Auluck, M. R. N. Prasad; *Executive Secretary:* Dr. B. K. Nayar.

Social Science Research, Indian Council of, Indraprastha Estate, New Delhi 110001.

Soil Science, Indian Society of, Indian Agricultural Research Institute, New Delhi 110012.

Surveyors, Institution of, Kashmir House, New Delhi 110011.

Table Tennis Federation of India, National Stadium, New Delhi 110001.

Trade Union Congress, All India, 24, Canning Lane, New Delhi 110001.

Trade Union Congress, Indian National, 17, Janpath, New Delhi 110001.

Tuberculosis Association of India, 3, Red Cross Rd., New Delhi 110001.

Twenty-two State Tuberculosis Associations are affiliated to this Association. It runs the Lady Linlithgow Sanatorium, Kasauli (Simla Hills); the New Delhi Tuberculosis Centre, New Delhi and Lala Ram Sarup Tuberculosis Hospital, Mehrauli (Delhi).

Secretary-General: B. M. Cariappa.

Wild Life, Indian Board for, Ministry of Agriculture, Krishi Bhavan, New Delhi 110001.

Working Journalists, Indian Federation of, 29, New Central Market, Connaught Circus, New Delhi 110001.

World Affairs, Indian Council of, Sapru House, Barakhamba Road, New Delhi 110001.

EDUCATIONAL AND RESEARCH

Aeronautics and Aviation Electronics, Indian Institute of, 73, Khan Market, New Delhi 110001.

Applied Economic Research, National Council of, Parisila Bhavan, 11, Indraprastha Estate, New Delhi 110001.

An independent research organisation to study important economic problems on an objective basis and to help in analysing and finding solutions to specific problems in the planning and management of industrial and other undertakings. The Studies cover: Area surveys, Taxation and Finance, Industry, Agriculture, Demand Forecasts, Energy, Transport, Saving & Consumption, Planning and General Studies.

Director-General: S. Bhoothalingam.

Applied Man-power Research, Institute of, Indraprastha Estate, Ring Rd., New Delhi 110001.

Main Objects: To advance knowledge about the nature, characteristics and utilisation of human resources in India; to provide a broad perspective of requirements of trained man-power for economic development in different fields with due regard to the probable impact of technological changes on the pattern of employment; and to develop improved methods and techniques for the training and development of the existing work force; educational preparation for employment; vocational guidance; identification and development of highly talented persons and forecasting demand and supply of man-power and connected matters.

Arbitration, Indian Council of, Federation House, New Delhi 110001.

President: Madanmohan Mangaldas; *Secretary:* N. Krishnamurthi.

Architects, Indian Institute of Landscape, Institute of Architects, 3, Court Lane, Court Rd., Delhi 110006.

Astronomical & Sanskrit Research, Indian Institute of, 2239, Gurudwara Road, Karol Bagh, New Delhi 110005.

Bal Bhavan & National Children's Museum, Kotla Rd., New Delhi 110001.

Blindness, National Society for the Prevention of, Ansari Nagar, New Delhi 110016.

Objects: To conduct research and investigate causes of blindness or impaired vision; to advocate measures and engage in community service activities for the control or elimination of the causes of blindness; to disseminate knowledge concerning the care and use of eyes.

Book Trust, National, A-5, Green Park, New Delhi 110016.

An autonomous body set up by the Min. of Education for creating a movement in the country to make the people more and more book-minded. The Trust produces and encourages the production of good literature and tries to make such literature available at a moderate price to the public. Over 900 books under well-planned series have been published.

Chairman: Dr. S. Gopal.

Cement Research Institute of India, M-10, S. Extn., Ring Rd., New Delhi 110049.

Constitution and Parliamentary Studies, Institute of, 18, Vithalbhai Patel Marg. New Delhi 110001.

Economic & Market Research, Institute of, 10, Hailey Rd, New Delhi 11001.

Education Association, Indian Adult, 17-B, Indraprastha Marg, New Delhi 110001.

Education Research Trust, Children's, Nandan Van, Ring Rd., New Delhi 1100014.

Educational Planning & Administration, Asian Institute of, Indraprastha Estate, New Delhi 110001.

Educational Research and Training, National Council of, NIE Campus, Aurobindo Marg, New Delhi 110016.

Foreign Languages, Institute of, 1/3 NDS, Lajpat Nagar, New Delhi 110024.

Health Administration & Education, National Institute of, E-16, Greater Kailash I, New Delhi 110048.

Hotel Management, Catering and Nutrition, Institute of, Pusa Institute, New Delhi 110012.

Indology, Institute of, 24E, N. Subash Marg, Delhi 110006.

Industrial Research, Shri Ram Institute for, 19, Univ. Rd., Civil Lines, Delhi 110007.

Objects: To assist national industrial growth through research for fibre and polymer industries, and also offer testing facilities through its Division known at " Shriram Test House " to industry and trade.

Director: Dr. R. T. Thampy.

International Studies, Indian School of, 35, Ferozeshah Rd., New Delhi 110001.

Jamia Rural Institute, Jamia Millia, New Delhi 110025.

Kendriya Vidyalaya Sangathan, Nehru House, Bahadur Shah Zafar Marg, New Delhi 110001.

Labour Studies, Indian Institute of, B-1/41, Safdar Jung Enclave, New Delhi 110016.

It provides advanced training to officers of Central and State Governments, Public Sector Undertakings and nominees of the foreign Govts. (Asian and African Countries) in practices and techniques of Labour Adm. It also undertakes research in Labour relations matters.

Director: P. N. Razdan.

Ladakh Bauddha Vihara, Bela Road, Delhi 110006.

Management, Indian Institute of Office, N-34, Jangpura Extn., New Delhi 110014.

Aims and objects: (1) The Institute has liaison with Administrative Management Society of U.S.A., Systems

& Procedures Association of U.S.A. and Institute of Office Management of U.K. (2) It disseminates knowledge about modern techniques. (3) It renders assistance in designing forms for internal use. (4) It conducts Diploma examination in Office Management in collaboration with the U.K. Institute twice a year. (5) A Certificate Course in Office Supervision for graduate women is also conducted in collaboration with the Universities of Delhi and Punjab.

President : D. R. Mohindra ; *Hon. Secy.:* Ramesh C. Bansal.

Management, Indian Chapter of Society for Advancement of, 42, Meena Bagh, New Delhi 110011.

Marketing and Management, Institute of, 62F, S. S. Park, New Delhi 110003.

Mass Communication, Indian Institute of, D-13, South Extn., Part II, New Delhi 110049.

A centre for advanced study in mass communication with responsibilities for training, research and development of the mass communication media in the country. Training programme caters to Govt. and non-Govt. personnel, besides Asian and African trainees seconded under the Colombo Plan and Special Commonwealth Assistance Programme.

Director : I. P. Tewari.

Materials-Management of India, Institute of, D-409, Defence Colony, New Delhi 110003.

Medical Research, Indian Council of, Medical Enclave, Ansari Nagar, New Delhi 110016.

The Council has established a Research Cadre and a Supernumerary Research Cadre to attract workers interested in bio-medical research. A scheme for appointment of Emeritus Medical Scientists has been initiated to enable eminent retired scientists to pursue the research work in which they are specialised and to train younger workers. The Council maintains the National Institute of Nutrition Hyderabad, the Virus Research Centre, Poona, (with its peripheral units) the Tuberculosis Chemotherapy Centre, Madras, the Cholera Research Centre, Calcutta, the Indian Registry of Pathology, New Delhi, National Institute of Occupational Health at Ahmedabad and the Institute for Research in Reproduction in Bombay. It has established a number of Units for important subjects *e.g.*, a Blood Group Reference Centre, Bombay, Entero Virus Unit, Bombay, I.C.M.R. Virus Research Unit Haematological Unit, Calcutta, I.C.M.R. Virus Research Unit Coonoor, Laboratory Animals Information Services, Bombay.

Director-General : Prof. P. N. Wahi.

Medical Sciences, All India Institute of, Ansari Nagar, New Delhi 110016.

Medical Sciences, Indian Academy of, C-11/2, Ansari Nagar, New Delhi 110016.

Medicine & Medical Research, Institute of History of, 2/3A, Asaf Ali Rd., New Delhi 110001.

Nuclear Medicine and Allied Sciences, Institute of, Probyn Rd., Delhi 110007.

Orthopaedics, Central Institute of, Safdarjung Hospital, New Delhi 110016.

Public Administration, Indian Institute of, Indraprastha Estate, Ring Rd., New Delhi 110001.

Research and Training in Employment, Central Institute of, I T I, Pusa, New Delhi 110012.

Objects : To develop and operate a systematic programme of research for identifying and analysing problems of the Employment Service to develop guides, manuals, brochures, etc. for improving the placement and other activities at local employment exchanges ; to conduct research in employment, unemployment and man-power problems ; to conduct career studies, and publish career literature for the use of youth and guidance workers and to provide in-service training to employment officers in various states.

Director : M. K. Nair.

Road Transport Indian Institute of, 1/7E, Jhandewalan Extn., New Delhi 110055.

Russian Studies, Institute of, J. L. Nehru Univ. Campus, N. Mehrauli Rd., New Delhi 110022.

Scientific Documentation Centre, Indian National, Hillside Rd., New Delhi 110012.

Scientific Technical Literature, Indian Council for Promotion of, 98, Mohan Singh Plot, Irwin Rd., New Delhi 110001.

Social Guidance, Institute for, 2F, Lajpat Nagar, New Delhi 110024.

Social Science Research, Indian Council of, IIPA Hostel, Ring Rd., Indraprastha Estate, New Delhi 110001.

An autonomous body set up by the Government of India to promote social science research, to expand its quantum, to improve its quality and to facilitate its utilisation in policy formulation and national development.

Chairman : Dr. M. S. Gore ; *Member-Secretary :* J. P. Naik.

Statistical Institute, Indian, J-19, Haus Khas, New Delhi 110016.

Teacher Educators, Indian Association of, 33, Chhatra Marg, Delhi 110007.

Technology, Indian Institute of, Hauz Khas, New Delhi 110029.

Technical Education, Indian Society for, IIT Campus, Hauz Khas, New Delhi 110029.

Telecommunication Engineers, Institution of, 72, 12/13, F. Block, Con. Place, New Delhi 110001.

Town Planners, Institute of, India, Indraprastha Estate, Ring Rd., New Delhi 110001.

United States Educational Foundation in India, 12, Hailey Rd., New Delhi 110001.

Vallabhbhai Patel Chest Institute, Univ. of Delhi, Patel Marg, Delhi 110007.

GOA

COMMERCIAL

Mineral Ore Exporters Association, Goa, Vagle Bldg., Rua Conde de Tones Novas, Panaji 403001.

Mining Association, Goa, Panaji 403001.

GUJARAT

COMMERCIAL

Automobile Association, Western India, The Cellar, Khanpur, Ahmedabad 380001.

Automobile Dealers' Association, Lakhia Brothers, Lal Darwaja, Ahmedabad 380001.

Book Publishers and Sellers Mandal, Ahmedabad, 47, Gandhi Rd., Ahmedabad 380001.

Builders' Association, Ahmedabad, Gujarat Instt. of Civil Engineers & Architects, Law College Rd., Ahmedabad 380006.

Bullion Exchange Association Limited, Ahmedabad, Manek Chowk, Ahmedabad 380001.

Button Manufacturers Association, All India, Juri Jail Compound, Jamnagar 361001.

Chemical Manufacturers Association, Saurashtra, Drug Laboratory, Darbargadh, Bhavnagar 364001.

Chemical Merchants' and Manufacturers' Association, Gujarat, 1466/4, Reid Rd., Ahmedabad 380001.

Chemical Pottery and Silk Manufacturers Association, Ahmedabad, C/o Nowroji N. Vakil & Co., Naroda Rd., Ahmedabad 380002.

Cloth Market Association, Ahmedabad Maskati, Maskati Cloth Market, Ahmedabad 380002.

Colour Merchants' Association, Ahmedabad, C/o. L. K. Trivedi & Co., 4020/15, Astodia, Ahmedabad 380001.

Confectionery Manufacturing Owners' Association, 155/156, Juna Madhavpura, Ahmedabad 380001.

Corrugated Box Mfrs. Association, Gujarat, C/o Shakti Packaging Industries, Industrial Estate, Vadodara 390005.

Cotton Association Limited, Western India, Cotton Hall, Manek Chowk, Ahmedabad 380001.

Cotton Merchants' Association, Ahmedabad, Dahyabhai Chambers, Manek Chowk, Ahmedabad 380001.

Cotton Waste Merchants' Association, Ahmedabad, Cotton Waste Bldg., Relief Rd., Ahmedabad 380001.

Cycle Dealers Association, Gujarat State, Inside Panch Kuva Ahmedabad 380001.

Dyestuffs Manufacturers' Association Gujarat, Prajapati Bldg., Khadia Char Rasta, Ahmedabad 380001.

Electrical Merchants' and Contractors' Association, C/o Vinaya Electric Co., Gandhi Rd., Ahmedabad 380001.

Engineering Manufacturers Association, Ahmedabad, Surendra House, Gheekanta Rd., Ahmedabad 380001.

Factory Owners' Association, Ahmedabad, Gheekanta Rd., Ahmedabad 380001.

Factory Owners' Association, Jamnagar, Santosh Nivas, Silver Market, Jamnagar 361001.

Ginning and Pressing Factories Association, Saurashtra, C/o Dhrangadhra House, Surendranagar 363001.

Hair Oil & Perfumery Traders Association, Gujarat, C/o J. B. Shah & Co., Pankaj Society, Ahmedabad 380007.

Hessian Association, Ahmedabad, Arenda Hall, Kapasia Bazar, Ahmedabad 380002.

Hosiery Factory Owners' Association, Ahmedabad, 449, Kankaria Rd., Ahmedabad 380001.

Industrial Information Centre, Chamber Hall, Jamnagar 361001.

Iron, Hardware and Paint Merchants' Federation, Ahmedabad, Lokhand Mahajan Bldg., Ahmedabad 380001.

Iron & Steel Merchants' Association, Bhavnagar, Iron Bazar, Bhavnagar 364001.

Isabgol, Manufacturers' & Exporters' Association, Bind Sarowar Rd., Sidhpur.

Jari Goods Producers' Co-operative Society Limited, Surat, Taj Manzil, Opp. Tower, Surat 395001.

Machinery Merchants' Association, 661, Kanuga Mansion, Kapasia Bazar, Ahmedabad 380002.

Metal Merchants' Association, Ahmedabad, 435, Jethabhai's Main Pole, Ahmedabad 388001.

Milk Producers Union Ltd., Kaira Dt., Co-operative, Anand 388001.

Also known as AMUL after its popular name of dairy products, it is a dairy co-operative which has federate to it 760 Village Co-ops. having approximately 220,000 farmer-members.

Milk Producers' Union Limited, Mehsana Dt. Co-operative, Mehsana 384001.

It collects 2,50,000 Kgs. of milk every day and produces 2,400 tons of spray dried milk powder, 2,000 tons of table butter and 600 tonnes of Ghee; also 8,000 tons of balanced Cattle Feed.

General Manager : B. C. Bhatt.

Milk Producers' Union Ltd., Rajkot Dist. Gopalak Co-operative, Near New Power House, Bhavnagar Rd., Rajkot 3.

Mill and Gin Stores Merchants' Association, Ahmedabad, Reid Rd., Railwaypura, Ahmedabad 380002.

Mill Owners Association, Ahmedabad, Ranchhodlal Marg, Navrangpura, Ahmedabad 380009.

President : Navnitlal Ranchhodlal. *Vice-President :* Chandrakant Bakubhai. *Secretary :* R. M. Dave.

Millowners' Association, Saurashtra, Dhrangadhra House, Surendranagar 363001.

Mills and Industries, Federation of Gujarat, Race Course Rd., Vadodara 390005.

Oil & Oilseeds Association Ltd., Saurashtra, Commercial Chamber, Rajkot 360001.

Oil Mills Association, Saurashtra, Manmohan St., Jamnagar 361001.

Optical Manufacturers Association, Gujarat, Mangal Bazar, Vadodara 390001.

Paper Merchants' Association, Ahmedabad, 995, Khadia Char Rasta, Ahmedabad 380001.

Pharmaceutical Association, Indian, L.M. College of Pharmacy, Ahmedabad 380009.

Pipe Traders' Association, Gujarat, Lokhand Mahajan Bldg., Nava Darwaja Rd., Ahmedabad 380001.

Plastic Manufacturers Association, C/o Hemant Brothers, Super Market Premises, Ashram Rd., Ahmedabad 380009.

Printing Press Association, Ahmedabad, Purohit Printing Press, Gheekanta Rd., Ahmedabad 380001.

Radio Merchants' Association, Ahmedabad, C/o National Radio Co., Manek Chowk, Ahmedabad 380001.

Sahakari Sangh Limited, Surat Vankar, Kinkhabwala Wadi, Begumpura, Surat 395001.

Sahakari Sangh Limited, Udhna Udyognagar, Central Rd., Udhna.

Sanitaryware Merchants' Association, Ahmedabad, Prajapati Bldg., Khadia Char Rasta, Ahmedabad 380001.

Scientific, Surgical & Chemical Association, Gujarat, Mehta Estate, Khadia Char Rasta, Ahmedabad 380001.

Share & Stock Brokers Association, Ahmedabad, Stock Exchange, Ahmedabad 380001.

Shroff Mahajan, Ahmedabad, Manek Chowk, Opp. Share Bazar, Ahmedabad 380001.

Small Industries Association, Bhavnagar, Darbargadh Rd., Bhavnagar 364001.

Small Industries Association, Kalol, Navjivan Rd., Kalol 382721.

Small Scale & Cottage Industries, Federation of, Dadasaheb Haveli, Mandvi, Vadodara 390001.

Soap Makers' Association, Gujarat, C/o Shree Krishna Industries, Pratapnagar Rd., Vadodara 390004.

Stationery Merchants Association, Ahmedabad, C/o Dhirubhai & Sons, Post Office Gali, Khadia, Ahmedabad 380001.

Tea Merchants' Association, Ahmedabad, Gujarat Tea Depot, Near Relief Talkies, Ahmedabad 380001.

Textile Association (India), Toll Naka, Gandhi Bridge, Ahmedabad 380009.

Textile Rings Manufacturers Association, Gujarat, C/o Oriental Tin Factory, Kalidas Mill Compound, Gomtipur Rd., Ahmedabad 380021.

Tiles Manufacturers Association, Ahmedabad, C/o Jayantilal & Co., Khadia Char Rasta, Ahmedabad 380001.

Timber Merchants' Association, Ahmedabad, Gita Mandir Rd., Ahmedabad 380022.

Vepari Mahamandal, Gujarat, Ranchhodlal Rd., Ahmedabad 380021.

Weaving Association, Surat, Limda Chowk, Lokhandwala Bldg., Mahatma Gandhi Rd., Surat 395001.

Wool Merchants Association, Gujarat, Post Box No. 122, Jamnagar 361001.

CULTURAL AND SOCIAL

Blind Men's Association, Near ATIRA Univ. Campus, Navrangpura, Ahmedabad 380009.

Darpana, 'Chidambaram,' Usmanpura, Ahmedabad 380013.

Jeevan Bharati, Greenlands, Nanpura, Surat 395001.

Sadhu Samaj, Bharat, Jagdish Mandir, Ahmedabad 380022.

Sharada Peeth, Dwaraka.
Pontifical seat established for spiritual and cultural guidance and uplift in Western India, by the first Jagadguru Shankaracharya.

EDUCATIONAL, RESEARCH AND PROFESSIONAL

Agricultural Institute, Government, Anand 388001.

Ayurvedic University, Gujarat, P.O. Box No. 511, Jamnagar 361001.

Civil Engineers and Architects, Gujarat Institute of, Law College Rd., Ahmedabad 380006.

Design, National Institute of, Paldi, Ahmedabad 380007.
An autonomous national institution for research, service and training (post-graduate as well as under-graduate) in product design, furniture design, ceramic design, textile design, and visual communication (film, sound, graphicsphotography, printing, typography) & allied fields.

Education Society, Ahmedabad, Lal Bhavan, Bhadra, Ahmedabad 380001.

Education Society, Shreyas, Laxminarayan Trust Bldg., Godhra 389001.

Engineers (India), Institute of, Law College Rd., Ahmedabad 380006.

Engineering Research Institute, Race Course Rd., Vadodara 390005.

Export, Indian Institute of, Sayajiganj, Vadodara 390005.

Homoeopathic Institute, Gujarat Rajya, 702/9, Seth Mangaldas Rd., Ahmedabad 380009.

Learning and Research, Sheth Bholabhai Jesinghbhai Institute of, Ahmedabad 380009.

Management, Institute of Co-operative, 9, Brahmin Mitra Mandal Society, Ellis Bridge, Ahmedabad 380006.
To carry out management training and research to help Gujarat's Co-operative Executives to help other Co-operative Training Institutions to develop their own programmes; to provide Co-operatives with managerial services on request and to carry out these objectives in an economical and financially viable manner.

Management, Indian Institute of, Vastrapur, Ahmedabad 380015.
Chairman : S. L. Kirloskar ; *Director :* Dr. S. Paul ; *Adm. Officer :* R. C. Chib.

Management Studies, All India Institute of, 14, Lal Baug Society, Vadodara 390004.

Medical Society, Ahmedabad, Opp. H.K. Arts College, Ashram Road, Ahmedabad 380009.

Occupational Health, National Institute of, Opp. New Mental Hospital, Ahmedabad 380016.
It conducts elaborate research on Industrial health and safety hazards.
Director : Dr. M. N. Gupta.

Oriental Institute, Smt. Hansa Mehta Library Bldg., Tilak Rd., Vadodara 390001.

Physical Research Laboratory, Navrangpura, Ahmedabad 380009.

Political Science, Harold Laski Institute of, Mavlankar Haveli, Bhadra, Ahmedabad 380001.
The Institute encourages and facilitates the scientific study of political and allied questions and problems.
Founder-Director : Prof. P. G. Mavlankar.

Textile and Allied Industries Research Organisation (TAIRO), Kala Bhavan Premises, Vadodara 390001.

Textile Industry's Research Association, Ahmedabad, (ATIRA) Polytechnic P. O., Ahmedabad 380015.
Inauguration: 1954. Established a Regional Centre at Indore: 1956.
Aims and Objects : 1. Research (*a*) to promote better understanding of materials, machines, processes; and (*b*) to increase productivity, improve quality and reduce cost; 2. Development of new products and processes; 3. Training of supervisors from industry; 4. Communication with industry. Guidance to research students for Postgraduate degrees of Gujarat Univ., M. S. Univ. of Vadodara and Bombay Univ.

Textile Labour Association, P.B. No. 110, Bhadra, Ahmedabad 380001.

Vocational Guidance, Institute of, Narayan Park, Navrangpura, Ahmedabad 380009.

HARYANA

COMMERCIAL

Industries Association, Faridabad, New Industrial Township, Faridabad.

Manufacturers' Association, Sonepat 131001.

Scientific Instruments Manufacturers' and Dealers' Association, Hargolal Rd., Ambala Cantt. 133001.

Textile Manufacturers' Association, Haryana, 13-T, Industrial Area, Panipat.

JAMMU & KASHMIR

COMMERCIAL

Beopar Mandal, Sri Runbir Gunj, Srinagar 190001.

Trade Offices

Trade Agent, Manekji Wadia Bldg., 129, M. Gandhi Rd., Bombay 400001. *Trade Agent,* Kashmir House, Court Rd., Amritsar 143001. *Trade Agent,* Dalhousie Rd., Pathankot. *Trade Commission,* 5, Prithviraj Rd., New Delhi, 110011.

KERALA

COMMERCIAL

Automobile Association of Kerala, Collectorate Jn., Kottayam 686001.

Automobile Association of Southern India, Pulical Bldgs., Mahatma Gandhi Rd., Ernakulam, Cochin 682016.

Automobile Spare Parts Dealers' Association, All Kerala, Mannadiar Lane, Umalayam, Trichur 680001.

Coir Mats and Matting Manufacturers' Association, Travancore, Alleppey 688001.

Coir Producers' and Dealers' Association, Kerala, Alleppey 688001.

Coir Yarn Merchants' Association, Travancore-Cochin, Rajagopala Mandiram, Mullakkal, Alleppey 688001.

Dairy Products Importers' Association, Jain Temple Trust Bldg., IV/47, New Rd., Cochin 682002.

Employers' Federation, West Coast, Cochin 682003. *President :* D. C. McCormick ; *Vice-President :* B. V. Pai ; *Secretary :* P. Sethuram.

Industrialists' Association, West Coast, Empress Hotel Rd., Kozhikode 673001.

Lemongrass Oil Exporters' Association, Indian, P. Box 52, Cochin 682001.

Manufacturers' Organisation, All India, Mohan Vihar, Karikumari Rd., Ernakulam, Cochin 682011.

Oil Millers' & Merchants' Association, Alleppey, Naga Mahal Bldgs., Alleppey.

Oil Millers Association, Travancore, Naga Mahal, Alleppey 688001.

Paper, Cutlery and Allied Traders' Association, Cochin, IV/47, New Rd., Cochin 682002.

Pepper and Spice Trade Association, India, XI/118, Jew Town, Cochin 682002.

Plywood Manufacturers' Association, South India, Calicut 673001.

Press Owners' Association, Ernakulam, Deepam Press Bldgs., Basin Rd., Ernakulam, Cochin 682011.

Produce Merchants' Association, Alleppey, Alleppey 688001.

Produce Merchants' Association, Malabar, Silk Street, Calicut 673001.

Saw Mills' Association, Malabar, Kallai, Calicut 673003.

Seafood Canners' and Freezers' Association of India, XIX/5, Kochangadi, Cochin 682005.

Seafood Exporters Association of India, XII/125(A), Jew Town Rd., Cochin 682002.

Small Industries Association, Kerala State, New Rd., Cochin 682002.

Soap Makers Association, South India, Oyitty Road, Calicut 673001.

Tea Trade Association of Cochin, Sebrof House, Willingdon Island, Cochin 682003. *Chairman :* E. N. Gopichandran ; *Vice-Chairman :* R. J. Chandy ; *Secretary :* N. K. Rajan.

Tile Manufacturers' Association, Central Kerala, Trichur 680001.

Tile Manufacturers' Association, Travancore, Quilon 691001.

Timber Exporters' Association, Kozhikode, Mooriyad, Calicut 673001.

Timber Merchants' Association, South Malabar, Kallai, Calicut 673003.

CULTURAL, SOCIAL AND PROFESSIONAL

Ananda Nritya Kalalayam School of Kathakali Dance, *H. O.* Palace Ward, Thevalli, Quilon 691001.

Arunodaya Kala Samithi, Alatur 678541.

Blind Welfare Association, Kerala, Mankadapallipuram P. O., Angadipuram.

Child Welfare, Kerala State Council for, 15/167, Bhakthivilas Rd., Trivandrum 695014.

Family Planning Association of India, Shanti Bhavan, Bhakthivilas Rd., Trivandrum 695014.

Gandhi Ashram, Mayannur, Via Ottapalam.

Gandhi Seva Sadan, P. O., Gandhi Seva Sadan, Via Lakkidi, Dist. Palghat.

Kalamandalam, Kerala, State Academy of Arts, P. O. Cheruthuruthy.

Keralites International Service Society, H. P. Bazar, Thodupuzha.

Medical Representatives' Associations of India, Federation of, Hope Villa, Gandhamariammankoil St., Trivandrum 695001.

Nair Service Society, Perunnai, Changanacherry 686101.

Natana Niketanam, Trichur 680001.

Productivity Council, Kerala State, Productivity House, Kalamassery.

Project, Indo Norwegian, Foreshore Rd., Ernakulam, Cochin 682011.

Set up in 1952 at Neendakara and subsequently shifted to Ernakulam with the extension of its activities to Tamil Nadu and Mysore. It helps fishermen in off-shore and deep sea exploratory fishing; practical training and demonstration of modern technology ashore and at sea; procurement of equipment for vessels and shore installation; construction of mechanised fishing crafts and training of fishermen for improved methods of fishing, etc. etc.

Red Cross Society, Indian, Near General Hospital, Trivandrum 695001.

Sahithya Akademi, Kerala, Trichur 680001.

Sahithya Pravarthaka Co-operative Society, Kottayam 686001.

A co-operative organisation of the authors of Kerala with branches in Trivandrum, Ernakulam and Trichur.

Sangeetha Nataka Akademi, Kerala, Trichur 680001.

Social Work, Indian Conference of, Post Box No. 6, Ernakulam 682011.

Tamil Sangham, Trivandrum, Chenthittai, Trivandrum 695001.

Trawlers' Association, Lalan Road, Cochin 682002.

EDUCATIONAL AND RESEARCH

Engineers (India), Institution of, 12/33B, Observatory Hill, Trivandrum 695001.

Fisheries Technology, Central Institute of, P. B. No. 39, Chittoor Rd., Ernakulam, Cochin 682011.

Industrial and Commercial Research Society of India, Vallia Veedu, Kozhencheri.

Supervisory Development, Institute of, Angamali.

MADHYA PRADESH

COMMERCIAL

Anaj Tilhan Vyapari Mahasangh, Madhya Pradesh, Hanumanganj, Bhopal 462001.

Anaj Tilhan Vyavasayee Sangh, Narmada Sambhag, Pipariya.

Ancillary Units Association, H.E. Ancillary Ind. Estate, Bhopal 462024.

Automobile Dealers Association, Indore, C/o Fairdeal Motors, Bombay-Agra Road, Indore 452001.

Automobile Merchants' Association, Bhopal, Hamidia Rd., Bhopal 462024.

Industrial Estate Manufacturers' Association, Ind. Estate, Polo Ground, Indore 452003.

Industries, Madhya Pradesh Organisation of, 33, Malaviyanagar, Bhopal 462001.

Marketing Federation Limited, M. P. State Co-operative, Mallik Market, Hamidia Rd., Bhopal 462001.

Readymade Vastra Vikreta Sangh, Madhya Pradesh, M. G. Rd., Indore 452001.

Sugar Mills' Association, Madhya Pradesh, Jail Rd., Indore 452001.

Textile Mills Association, Madhya Pradesh, 11, South Tukoganj, Indore 452001.

CULTURAL, SOCIAL AND PROFESSIONAL

Blind, Madhya Pradesh Welfare Association for the, 83, Bozanket Market, Indore 452001.

Child Welfare, Madhya Pradesh State Council for, Secretariat Bldg., Bhopal 462001.

Library Association, Bhilai.

Local Authorities, Federation of All India, Chandralok, Satna 485001.

Multipurpose Co-operative Society, Ex-Servicemen, South View, Narbada Rd., Jabalpur 482001.

Scheduled Castes/Tribes & Other Backward Classes Welfare Association, Durg Dist. St. 34, Block I/A, Sector 7, Bhilainagar.

Young Educated Persons Association, Alamgir Mahal, Lakherapura, Bhopal 462001.

Youth Association, Friends', 11/584, Nayapara, Raipur 492001.

EDUCATIONAL AND RESEARCH

Applied Sciences, Birla Research Institute for, Birlagram, Nagda.
Director-General : Dr. S. M. Mitra.

Ausadhi Nirmata Sangh, Mahakoshal, 303, Marhatal, Jabalpur 482002.

Earth & Environmental Sciences, Academy of, School of Studies in Geology, Vikram Univ., Ujjain 456001.

Jiwaji Industrial Research Laboratory, Tansen Rd., Gwalior 474002.

Oriental Institute, Scindia, University Rd., Ujjain 456001.

Plant Industry, Institute of, Old Residency Area, Indore 452001.

Research Institute, Tribal, Chhindwara.

Technological Institute, Shri Govindram Seksaria, Opp. Nehru Park, Indore 452001.

MAHARASHTRA

COMMERCIAL

Advertisers Ltd., Indian Society of, 148, M. Gandhi Rd., Bombay 400001.

Advertising Agencies Association of India, 111A, M. Gandhi Rd., Bombay 400001.

Advertising Canvassers & Agents Association of India (Railways), 1107, Prasad Chambers, Opera House, Bombay 400004.

Advertising Practitioners, Society of, Ilaco House, Sir P. Mehta Rd., Bombay 400001.

Alkali Manufacturers' Association of India, Bansilal Mansion, 11, Bruce St., Bombay 400004.

Alloy Steel Producers Association of India, Shree Niketan, Shiv Sagar Estate, Dr. A. Besant Rd., Bombay 400018.

Audit Bureau of Circulations Limited, Wakefield House, B. Estate, Bombay 400001.
Chairman : C. R. Irani ; *Dy. Chairman :* V. G. Rajadhyaksha ; *Hony. Secretary :* Harish C. Jain ; *Hony. Treasurer :* C. A. Narayan ; *Secretary :* S. D. Kumar.

Automobile and Ancillary Industries Association, All India, 80, Dr. A. Besant Rd., Bombay 400018.

Automobile Association, Western India, 76, Veer Nariman Rd., Bombay 400020.
Branch Offices : Ahmedabad ; Poona ; Nagpur ; Jaipur ; Panaji; Goa.

Automobile Dealers' Associations, Federation of, 534, Sardar V. P. Rd., Bombay 400007.

Automobile Dealers' Association of Maharashtra Ltd., C/o Bombay Chamber of Commerce & Industry, Mackinnon Mackenzie Bldg., B. Estate, Bombay 400001.

Automobile Manufacturers, Association of Indian, Army and Navy Bldg., M. Gandhi Rd., Bombay 400001.
President : N. K. Firodia ; *Secretary :* C. V. K. Murthy Rao.

Bakeries Association, Court House, Carnac Rd., Bombay 400002.

Ball Bearing Merchants' Association, All India, 105, Abdul Rehman St., Bombay 400003.

Banks Association, Indian, Stadium House, Veer Nariman Rd., Bombay 400020.

Bidi Industry Association, Maharashtra, 12, Rampart Row, Bombay 400001.

Bobbin Manufacturers' Association, All India, Prasad Chambers, Opera House, Bombay 400004.

Booksellers and Publishers Association, Bombay, C/o Progressive Corpn., Davar's College, 51, M. Gandhi Rd., Bombay 400001.

Bright Steel Manufacturers' Association of India, Astoria Bldg., Block 211, Churchgate, Bombay 400020.

Builders' Association of India, United India Bldg., Sir P. Mehta Rd., Bombay 400001.
President : K. J. Sapra ; *Vice-President :* Prof. K. C. Pandya.

Bullion Association Limited, Bombay, 185, Sheikh Memon St., Bombay 400002.

Camphor Tablets Manufacturers' Association, Bombay, 218, Samuel St., Bombay 400003.

Canvas & Tarpaulin Merchants' Association, Bombay, 245, Musjid Bunder Rd., Bombay 400003.

Cement Manufacturers' Association, Express Bldg., Opp. Churchgate Rly. Stn., Bombay 400020.

Cement Tiles Manufacturers' Association, 8/10, Green St., Bombay 400001.

Chemical and Alkali Merchants' Association, Himalaya House, Palton Rd., Bombay 400001.

Chemical Manufacturers' Association, Indian, 16, Apollo St., Bombay 400001.

Chemists' and Druggists' Association, 48, S. Gandhi Marg., Bombay 400002.

Clearing Agents' Association, Bombay Customs House, Warden House, Sir P. Mehta Rd., Bombay 400001.

Cloth Dealers' Associations, Federation of Bombay Retail, 24/30, 1st Marine St., Bombay 400002.

Clothing Manufacturers' Association of India, India House, G. Deshmukh Marg, Bombay 400036.
President : P. N. Amersey ; *Vice-President :* Hamid Ismail ; *Hon. Gen. Secy. :* S. L. Shah.

Colour and Chemical Merchants' Association, Bombay Kariana, 225-27, Samuel St., Bombay 400003.

Company Secretaries Association, C/o Ulka Advertising, Nirmal, Nariman Point, Bombay 400001.

Consumers Federation Limited, National Co-operative, Prasad Chambers, Opera House, Bombay 400004.

Co-operative Marketing Federation Ltd., Maharashtra State, Kanmoor House, Narsi Natha St., Bombay 400009.

Co-operative Spinning Mills Ltd., All India Federation of, Jehangir Bldg., Sir P. Mehta Rd., Bombay 400001.

Co-operative Union, Maharashtra State, 9, Bakehouse Lane, Bombay 400001.

Copperware Mfg. Association, Small-scale, 39, Bhajipala St., Bombay 400003.

Corrugated Box Manufacturers' Association, Western India, 61, Govt. Ind. Estate, Kandivli West, Bombay 400067.

Corrugated Box Mfrs. of India, Federation of, Khorshed Bldg., Sir P. Mehta Rd., Bombay 400001.

Cotton Association Limited, East India, Cotton Exchange, Marwari Bazar, Bombay 400002.

Cotton Merchants' and Muccadums' Association Ltd., Bombay, 72-73, Cotton Exchange, Sewree, Bombay 400015.

Cotton Mills Federation, Indian, Elphinstone Bldg., 10, Veer Nariman Rd., Bombay 400001.
Chairman : Tej Kumar Sethi; *Dy. Chairman :* K. Sundaram; *Vice-Chairman :* Balakrishna Harivallabhdas; *Secy.-General :* B. G. Kakatkar.

Cotton Waste Exporters' Association, All India, Sapt Bldg., Graham Rd., B. Estate, Bombay 400001.

Cottonseed Crushers Association, All India, 198, Jamshedji Tata Rd., Bombay 400020.
Chairman : J. T. Kapadia; *Vice-Chairmen :* N. J. Agarwal, G. G. Patel; *Hon. Secy. :* E. A. Kader.

Cutlery, Toys, Glass Beads and Sundry Merchants' Association, Bombay, 106, Bhusari Mohalla, Bombay 400003.

Diamond Merchants' Association, Bombay, 3, Dhanji St., Bombay 400003.

Drop Forging and Stamping Industries, Association of Indian, 80, Dr. A. Besant Rd., Bombay 400018.

Drug Manufacturers' Association, Indian, Sujat Mansion, S. V. Rd., Andheri West, Bombay 400058.

Dyestuff Manufacturers' Association of India, Room Nos. 46-47, 296, Samuel St., Bombay 400003.

Electric Merchants' Association, Shreeji Bhavan, Lohar Chawl, Bombay 400002.

Electrical Contractors' Association, 75, New Stock Exchange Bldg., Apollo St., Bombay 400001.

Electrical Manufacturers' Association, Indian, Himgiri, Pedder Rd., Bombay 400026.

Electrical Undertakings, Association of, Western and Central India, Transport House, Shahid Bhagat Singh Rd., Bombay 400001.

Electricity Undertakings of India, Federation of, Transport House, Shahid Bhagat Singh Rd., Bombay 400001.

Electro-Platers' Association, Bombay, 139, Bhendi Bazar, Bombay 400003.

Electronic Component Industries Association, Handloom House, Dr. D. Naoroji Rd., Bombay 400001.

Embroidered Textile Manufacturers' Association, All India, Bombay Cotton Mills Estate, Kalachowki Rd., Bombay 400033.

Employers' Federation of India, Army & Navy Bldg., 148, M. Gandhi Rd., Bombay 400001.
President : Naval H. Tata; *Vice-Presidents :* N. M. Wagle, A. W. B. Hayward, M. M. Muthiah, I. P. Anand; *Secretary:* N. M. Vakil.

Exercise Books Manufacturers' Association, All India Federation of, 23, Mirza St., Bombay 400003.

Fair Trade Practices Association, 76, Veer Nariman Rd., Bombay 400020.

Ferro Alloy Producers Association, Indian, 14, Karve Rd., Bombay 400020.

Ferrous and Non-Ferrous Manufacturers' Association, Bombay, 201/13-21, Panjrapole 3rd Lane, Bombay 400004.

Fertiliser Association of India, Western Regional Office, 305, Neelkanth, 98, Marine Drive, Bombay 400002.

Food Processing Industry Association, Indian, C/o Ardeo, 13/19, Medows St., Bombay 400001.

Footwear Manufacturers' Association, All India PVC., Merchant Chambers, New Marine Lines, Bombay 400020.

Foreign Exchange Dealers' Association of India, C/o Bank of Baroda, 3, Walchand Hirachand Marg, Bombay 400001.

Foreign Trade, Indian Council of, Co-operative Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.

Foundry Owners' Association, Bombay, Type B-196, Gaiwadi, Girgaum, Bombay 400004.

Glass Manufacturer's Association, Western, C/o Mahalakshmi Glass Works Pvt. Ltd., Dr. E. Moses Rd., Bombay 400011.

Glass Merchants' Association, All India, 166, Abdul Rehman St., Bombay 400003.

Goods Transport Association, Bombay, Mehta Chambers, Kalyan St., Bombay 400009.

Grain Dealers' Association, Bombay, 103, Keshavji Naik Rd., Bombay 400009.

Grain Dealers' Federation, Retail, 'Shiv Mahal', 84-86, Dr. Maheshwari Rd., Bombay 400009.

Grain, Rice & Oilseeds Merchants' Association, 72-80, Yusuf Meheralli Rd., Bombay 400003.

Groundnut Extractions Export Development Association, Tanna House, 11-A, Wodehouse Rd., Bombay 400001.

Hair Exporters' Association, Western India Human, C/o Nandlal Madanlal, Mohamad Bldg., 106, Tantanpura, St., Bombay 400009.

Handloom Fabrics Marketing Co-operative Society Ltd., All India, Bharati Bhuvan, P. D'Mello Rd., Bombay 400001.

Hardware Merchants' Association, Bombay, 57, Sarang St., Bombay 400003.

Hosiery Manufrs.' Association, Bombay State, 70/72, Chakla St., Bombay, 400003.

Hosiery Manufrs.' Associations of India, Federation of, Moosa Haji Patrawala Estate, 20, Haines Rd., Bombay 400011.

Hotel and Restaurant Association (W. India), Taj Mahal Hotel, Apollo Bunder, Bombay 400001.

Hotels Association, Bombay, 243, Masjid Bunder Rd., Bombay 400003.

Housing Federation Ltd., Bombay Co-operative, 19, Bell Bldg., Sir P. Mehta Rd., Bombay 400001.

Housing Finance Society Ltd., Maharashtra Co-operative, Temple Bar Bldg., 70, Dr. V. B. Gandhi Marg, Bombay 400001.

Importers' Association, All India, 32, Nariman Rd., Bombay 400001.

Industries, All India Association of, Wakefield House, 11, Sprott Rd., Ballard Estate, Bombay 400001.

Industries Association, Bombay, Sahakar Bhavan, Kurla, Nari Seva Sadan Rd., Bombay 400077.

Industries of India, Federation of Association of Small, Fort Chambers, Tamarind St., Bombay 400001.

Instrument Manufacturers' and Dealers' Association, All India, A-32, Navyug Nivas, Lamington Rd., Bombay 400007.

Instrument Organization, Jawahar Society, Vasant Vilas, Andrews Rd., Santacruz West, Bombay 400054.

Instruments Export Organisation, IMDA, 1-32, Navyug Nivas, 167, Dr. D. Bhadkamkar Rd., Bombay 400007.

Insurance Association of India, Bombay Regional Council, Radia House, 6, Rampart Row, Bombay 400001.

Iron Merchants' Association, Bombay, 501, Steel Centre, Sant Tukaram Rd., Bombay 400009.

Iron, Steel & Hardware Merchants & Manufacturers' Chamber of India, Loha Bhavan, P. D'Mellow Rd., Bombay 400009.

Kariana Merchants' Association, Bombay Mudibazar, 43, Kazi Syed St., Bombay 400003.

Leather Goods Manufacturers and Dealers' Association, 157, Princess St., Bombay 400002.

Livestock Feed Manufacturers Association, All India Compound, 165/166, Backbay Reclamation, Bombay 400020.

Lorry Operators' Syndicate, Bombay, 575, Sheriff Devji St., Bombay 400003.

Machinery Merchants' Association, All India, Room No. 30, 105, Apollo St., Bombay 400001.

Machine Tool Manufacturers' Association, Indian, Great Western Bldg., S. Bhagat Singh Rd., Bombay 400001.

President : N. P. Godrej ; *Vice-President :* Vinod L. Doshi ; *Hon. Secretary :* S. D. Sulakhe.

Man-made Fibre Industry, Association of, 78, Veer Nariman Rd., Bombay 400020.

Man-made Fibre Spinners Association, Moti Mahal, Churchgate Reclamation, Bombay 400020.

Manufacturers' Organisation, All India, Jeevan Sahakar, Sir P. Mehta Rd., Bombay 400001.

President : Dr. B. V. Bhoota ; *Vice-Presidents :* S. K. Somaiya, P. S. Kalani, K. V. Srinivasan, P. Sharan Gupta, M. L. Shroff ; *Hon. Gen. Secy. :* D. P. Birla ; *Secretary-General :* P. L. Badami.

Marketing Association, Indian, 14, Nicol Road, B. Estate, Bombay 400001.

Metal Exchange Ltd., Bombay, Gogate Mansion, Kika St., Bombay 400002.

Mill Gin Store Merchants' Association, 88/92, Nagdevi Cross Lane, Bombay 400003.

Millowners' Association, Elphinstone Bldg., Veer Nariman Rd., Bombay 400001.

Chairman : Ramprasad Poddar ; *Deputy Chairman :* Rasesh Mafatlal ; *Secretary:* R. L. N. Vijayanagar.

Motor Merchants' Association Ltd., Bombay, Sukh-Sagar, Sandhurst Bridge, Bombay 400007.

Motor Parts Dealers Association, Maharashtra, Kala Bhavan, Mathew Rd., Bombay 400004.

Motor Transport Associations, Federation of, 26, P. D'Mello Rd., Bombay 400009.

Oil and Produce Exporters' Association, Indian, Anna Bhavan, Broach St., Bombay 400009.

Oil Industry and Trade, Central Organisation for, Anna Bhavan, Broach St., Bombay 400009.

Oilseeds and Oils Exchange Ltd., Bombay, Jenabai Bldg., Yusuf Meherally Rd., Bombay 400003.

Paint and Allied Industries Association, Indian, 310, Arun Chambers, Tardeo Rd., Bombay 400034.

Paint Association, Indian, C/o Bombay Chamber of Commerce & Industry, Mackinnon Mackenzie Bldg., B. Estate, Bombay 400001.

Paper Mills' Association, All India Small, 109, Shaikh Memon St., Bombay 400002.

Paper Traders' Association, 54, Sutar Chawl, Bombay 400002.

Paper Traders' Association of India, Federation of, Commerce House, 140, Medows St., Bombay 400001.

Pearl Dealers' Association, Genuine, 82/86, Abdul Rehman St., Bombay 400003.

Pepper and Ginger Merchants' Association Ltd., 332-34, Narsi Natha St., Bombay 400009.

Perfumes & Flavours Association of India, Devkaran Mansion No. 3, 45/47, Princess St., Bombay 400002.

President : C. V. Varadan ; *Vice-President :* G. D. Kelkar ; *Treasurer :* Mukund R. Shah; *Hon. Secretary :* Kantilal N. Shah.

Pharmaceutical and Allied Manufacturers' and Distributors' Association, Ltd., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400001.

President : G. Dorai ; *Vice-President :* Dr. S. K. Bhattacharya ; *Hon. Secretary :* S. U. Sitaram ; *Hon. Treasurer :* P. B. Oza.

Pharmaceutical Association, Indian, Kalina, Santa Cruz (East), Bombay 400029.

Pharmaceutical Producers of India, Organisation of, Cook's Bldg., Dr. D. Naoroji Rd., Bombay 400001.

President : Brig. B. S. Bhagat ; *Vice-Presidents :* S. V. Pillai, D. J. R. Farrant.

Photographers' Association, Professional, Vanguard Studios, Opp. Thakurdwar P. O., Bombay 400002.

Photographic and Allied Trades Association Ltd., Western India, Mangrol Mansion, 6, Gunbow St., Bombay 400001.

Piece-Goods Merchants' Mahajan, Bombay, 250, Sheikh Memon St., Bombay 400002.

Pipes and Fittings Merchants' Association, Bombay, 84, Nagdevi St., Bombay 400003.

Plastics Manufacturers' Association, All India, Jehangir Bldg., M. Gandhi Rd., Bombay 400001.

President : M. P. Taparia ; *Vice-Presidents :* B. D. Goradia, B. K. Mohta, Bhupendranath Jain, S. Ramaswamy ; *Hon. Secy. :* S. G. Poddar.

Precious Stones Importers & Exporters Association, Gurukul Chambers, Mumbadevi Rd., Bombay 400002.

Press-Owners' Association, Bombay, 196 B, Gaiwadi, Bombay 400004.

Printers, All India Federation of Master, C/o Bombay Samachar Ltd., Horniman Circle, Bombay 400001.

Printers Association, Bombay Master, 108, Worli Sea Face Rd., Bombay 400018.

Produce Exporters' Association, Indian, 76, Sheriff Devji St., Bombay 400003.

Protein Foods Association of India, Mahalaxmi Chambers, 22, Bhulabhai Desai Rd., Bombay 400026.

Publications Association, Specialised, 235, D. Naoroji Rd., Bombay 400001.

Publishers' and Booksellers' Association in India, Federation of, C/o India Book House, Rusi Mansion, 29, Wodehouse Rd., Bombay 400001.

Radio & Electronics Association, All India, Sukh Sagar, Hughes Rd., Bombay 400007.

Radio & Electronics Society of India, 4, Kurla Ind. Estate, Agra Rd., Ghatkopar, Bombay 400086.

Radio Electronic and Television Manufacturing Association, C/o Lovelock and Lewis, Wavell House, Graham Rd., B. Estate, Bombay 400001.

Rafia & Allied Products Manufacturers' Association, C/o Gautam Shah, 47, Carnac Siding Rd., Bombay 400009.

Refrigeration and Air Conditioning Trades Association Limited, C/o Bombay Cycle and Motor Agency Ltd., 534, Sardar V. Patel Rd., Bombay 400007.

Roads and Transport Development Association Limited, Indian, 27, Bastion Rd., Bombay 400001.

Rubber Industries Association, All India, Navjivan Soc. Bldg., Lamington Rd., Bombay 400008.

Salt Manufacturers' Association, Indian, Tanna House Annexe, 11-A, Wodehouse Rd., Bombay 400001.

Sanitaryware Association, Bombay, 70, Mohamedali Rd., Bombay 400003.

Scientific and Surgical Instrument Manufacturers' and Traders Association, Devkaran Mansion, 43, Princess St., Bombay 400002.

Screen Printers & Processors Association, Bombay, 'Neelam', Plot No. 108, Worli Sea Face, Bombay 400018.

Sheet Rollers' Association, Western India, 32, Nicol Rd., Ballard Estate, Bombay 400001.

Shipowners' Association, Indian National, Scindia House, Ballard Estate, Bombay 400001.

President : C. P. Srivastava ; *Vice-President :* Capt. J. C. Anand ; *Hon. Treasurer :* N. H. Dhunjibhoy ; *Secy. :* S. K. Aier.

Shippers Association, Western India, Indian Mercantile Chambers, 76, Veer Nariman Rd., Bombay 400020.

Shoddy Mills Association, Indian, Sadhana Rayon House, Dr. D. Naoroji Rd., Bombay 400001.

Shroffs' Association Limited, Bombay, 233, Shroff Bazar, Bombay 400002.

Shuttle Manufacturers' Association, C/o Acme Bobbins & Shuttles Pvt. Ltd., 315, S. V. Rd., Bombay 400028.

Silk and Art Silk Mills' Association, Limited, Resham Bhavan, 78, Veer Nariman Rd., Bombay 400020.

Silk Merchants' Association, Dahanukar Building, Kalbadevi Rd., Bombay 400002.

Sindwork Merchants' Association, All India, 231, Dr. D. Naoroji Rd., Bombay 400001.

Smallscale Electronic Industries Association, 1203, Prasad Chambers, Tata Rd., Bombay 400004.

Solvent Extractors' Association of India, Tanna House Annexe, 11-A, Wodehouse Rd., Bombay 400001.

Sports Traders' and Manufacturers' Association, Bombay, C/o K. L. Malhotra Bros., Mohatta Market, Palton Rd., Bombay 400001.

Stainless Steel Industries Association, All India Arun Chambers, Tardeo Main Rd., Bombay 400034.

Standards Institution, Indian, Novelty Chambers, M. Shaukat Ali Rd., Bombay 400007.

Starch Manufacturers' Association, All India, 159, Colaba Rd., Bombay 400005.

Steel Furnace Association of India, C/o Mukand Iron and Steel Works Ltd., Kurla, Bombay 400070.

Stevedores' Association Limited, Bombay, Janmabhoomi Chambers, Fort St., Bombay 400001.

Stock Exchange, Dalal St., Bombay 400001.

President : Laldas Jamnadas ; *Chairman :* P. J. Jeejeebhoy ; *Vice-President :* Jayant Amerchand ; *Hon. Treasurer :* Mathuradas Shamaldas ; *Secy. :* A. J. Shah.

Sugar Factories' Association, Deccan, Stadium House, Block No. 2, Veer Nariman Rd., Bombay 400020.

Sugar Merchants' Association Limited, Bombay, 104-114, Frere Rd., Bombay 400009.

Sugar Mills Association, Indian, 5, Convent Street, Bombay 400001.

Tarpaulin Merchants' Association, Bombay, 297, Narsi Natha St., Bombay 400009.

Tax Consultants' Association of India, A-1, Sneha Sadan, N. Gamadia Rd., Bombay 400026.

Tax-Payers' Association of India, Ltd., Fort Chambers A, Dean Lane, Bombay 400001.

Telephone Association Ltd., All India, Darya Bldg., M. Gandhi Rd., Bombay 400001.

Textile and Engineering Association, Bombay, Satar Bldg., Opp. Grant Road Rly. Stn. (East), Bombay 400007.

Textile Auxiliaries Manufacturers' Association, C/o Assocn. of Merchants & Mfrs. of Textile Stores & Machinery (India), 18/20, Rampart Row, Bombay 400001.

Textile Machinery Manufacturers' Association, 80, Dr. A. Besant Rd., Worli, Bombay 400018.

Textile Stores and Machinery, India, Association of Merchants and Manufacturers of, Bhogilal Hargovindas Bldg., 18/20, Rampart Row, Bombay 400001.

Textiles Committee, (Min. of Foreign Trade, Govt. of India) 79, Dr. A. Besant Rd., Bombay 400018.

Chairman : G. K. Singhania ; *Vice-Chairman :* P. N. Kapur ; *Secretary :* P. N. Anand.

Regional Offices : Ahmedabad, Bangalore, Calcutta. Coimbatore, Indore, Kanpur, Ludhiana, Madras, Madurai, Nagpur, New Delhi, Sholapur, Surat. Ensures standard qualities of textiles and textile machinery for export and conducts market research surveys in textiles.

Timber Merchants' Association Limited, Bombay, Victoria Rd., Mustafa Bazar, Bombay 400010.

Tobacco Merchants' Association Limited, Indian, 184, Clive St., Bombay 400009.

Tractor, Earthmoving and Construction Equipment Distributors' Association Limited, Mackinnon Mackenzie Bldg., B. Estate, Bombay 400001.

Trade and Industry, Association of Indian, Bombay Mutual Chambers, Hamam St., Bombay 400001.

Trade Mark Owners Association of India, Army & Navy Bldg., M. Gandhi Rd., Bombay 400001.

Travel Agents Association of India, 35, Anjali, Behind Radio Club, Arthur Bunder Rd., Bombay 400005.

Vanaspathi Manufacturers' Association of India, Harilela House, Mint Rd., Bombay 400001.

Vegetable Oils Association of India, Anna Bhavan, 87-C, Broach St., Bombay 400009.

President : C. V. Mariwala ; *Vice-President :* D. K. Kishnani ; *Hon. Secretary :* H. H. Lillaney ; *Hon. Treasurer :* K. N. Mehta.

Village Industries Association, Bombay Suburban, 286, Dr. D. Naoroji Rd., Bombay 400001.

Watch Dealers Syndicate, Bombay, 78, Abdul Rehman St., Bombay 400003.

Watch Straps Manufacturers' Association, All India, Empire Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Watch Trade Federation, Ghadiali Bldg., Nagdevi Cross Lane, Bombay 400003.

Woollen & Textiles Association, All India, 27/29, Champa Galli, M. J. Market, Bombay 400002.

Woollen Mills Federation, Indian, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Yarn Merchants' Association and Exchange Ltd., Bombay, Bombay Yarn House, Nakhoda St., Bombay 400003.

CULTURAL AND SOCIAL

Adult Education Association, Bombay, 136, Apollo St., Bombay 400001.

Ahmadiyya Movement, 'Alhaq', 17, Club Back Rd., Bombay 400008.

Ambulance Association, Popular, J. Dadajee Rd., Bombay 400007.

Ambulance Association, St. John, 141, Bhagat Singh Rd., Bombay 400001.

Ambulance Corps, Bombay City, 21, Marine Lines, Bombay 400020.

Andhra Mahasabha (Regd.), Bombay, Opp. King George High School, Lakhamsi Nappoo Rd., Bombay 400019.

Anglo Indian Association, All India, Brabourne Stadium, Veer Nariman Rd., Bombay 400020.

Animal Welfare Association, All India, 394A, Bhaudaji Rd., Bombay 400019.

Animals, Society for the Prevention of Cruelty to, Hospital Rd., Bombay 400012.

Anjuman-i-Faiz-i-Panjetani, 69, Samuel St., Bombay 400009.

Aquarist Society of India, New Citizen Bank Bldg., Palton Rd., Bombay 400001.

Artytoys Industrial Scheme Trust, Sir Ratan Tata Welfare Centre, Sir Ratan Tata Rd., Tardeo, Bombay 400034.

Arya Samaj, 96-98, Bora Bazar St., Bombay 400001.

Asiatic Society of Bombay, Town Hall, Bombay 400001.

Asthika Samaj, King's Circle, Bombay 400019.

Balkan-Ji-Bari, (All India Youth Association) "Gulistan", Khar, Bombay 400052.

Bapnu Ghar, 12A, A. Besant Rd., Bombay 400018.

Beggars' Home for Females, Chembur, Bombay 400071.

Bhagini Samaj, 225, N. Desai Rd., Bombay 400004.

Bhagini Samaj, Dadar, 3rd Lane, Hindu Colony, Bombay 400014.

Bharati Sewak Saina, A/13, Juhu Apartments, Santacruz, Bombay 400054.

Bharatiya Samaj, Shri Brihad, N. K. M. International House, 178, Backbay Reclamation, Bombay 400020.

Bible Society of India and Ceylon, India House, Opp. G. P. O., Fort St., Bombay 400001.

Billawar Association, 17, Raghunath Dadaji St., Bombay 400001.

Brahman Sahayak Sangh, Shivaji Park Rd. No. 3, Bombay 400028.

Braj Mandal, 1107, Prasad Chambers, Opera House, Bombay 400004.

British Council, French Bank Bldg., Homji St., Bombay 400001.

Library : N. K. Mehta International House, 178, Backbay Reclamation, Bombay 400020.

Branch Libraries :—Poona 411004 ; 917/1, Fergusson College Rd. ; Bhopal 460003 ; Tagore School of Fine Arts Bldg., Central T. T. Nagar.

H. Q. in India :—21, Jor Bagh, New Delhi 110003 ; Other regional offices : Calcutta, Madras ; Other branch libraries : Bangalore, Lucknow, Trivandrum, Patna, Ranchi.

Charitable Institution, Byramjee Jeejeebhoy Parsee, 33, Karve Marg, Bombay 400004.

Charities, Goculdas Tejpal, 7, Bastion Rd., Bombay 400001.

Charities, N. M. Wadia, N. M. Wadia Bldg., 123, M. Gandhi Rd., Bombay 400001.

Charities, Sir Ratan Tata, Bombay House, Bruce St., Bombay 400001.

Cheshire Home, Bombay, Bethlehem House, Mahakali Caves Rd., Bombay 400058.

The Cheshire Homes are for the incurably sick and homeless.

Child Welfare, Maharashtra State Council for, No. 10, B.D.D. Chawl, Delisle Rd., Bombay 400011.

Children's Aid Society, 83, Lady Hardinge Rd., Mahim, Bombay 400016.

Children's Film Society (India), Hingorani House, Worli, Bombay 400018.

Chinmaya Mission, Sandeepany Sadhanalaya, Vihar Rd., Bombay 400076.

Crafts Council of India, Theosophy Hall, 40, New Marine Lines, Bombay 400020.

Is a non-official organisation for the promotion of the cultural and creative aspects of Crafts in India.

Cultural Relations, Indian Council for, Hemprabha, Subhas Rd., Bombay 400020.

Dasha Sorathia Vanik Nutan Youvak Mandal, Shree, 68, Cavel Cross Lane No. 3, Bombay 400002.

Destitutes and Orphans, Bene-Israel Home for, 9A, Wylie Rd., Bombay 400011.

Dharma Society, Rashtra, Ganga Nivas, 234, Walkeshwar Rd., Bombay 400006.

Film Federation of India, 91, Walkeswar Road, Bombay 400006.

Forum of Free Enterprise, Sohrab House, 235, Dr. D. Naoroji Rd., Bombay 400001.

"Gate of Mercy" Synagogue, 254, Samuel St., Bombay 400003.

Indo-American Society, Kitab Mahal, 5, Raveline St., Bombay 400001.

Indo-Arab Society, 12, Nagin Mahal, Veer Nariman Rd., Bombay 400020.

Indo-Fiji Cultural Association, 12, Colaba Chambers, Bombay 400005.

Indo-German Cultural Society, 16, Nariman Rd., Bombay 400001.

Indo-Japanese Association, 12, Rampart Row, Bombay 400001.

Indo-Mauritius Society, C/o A. S. Kably, 123, St., Mary's Rd., Bombay 400010.

Indo-Soviet Cultural Society, Syndicate Bank Bldg., Sir P. Mehta Rd., Bombay 400001.

Industrial Institute, Sir Ratan Tata, 35, Hughes Rd., Bombay 400007.

The Institute helps to partially solve the problem of poverty and distress among families from the lower income groups, by encouraging women to earn a living through suitable industries.

Inter Mission Business Office, 364, Dr. D. Naoroji Rd., Bombay 400001.

Iran League, Navsari Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Ismailia Association for India, Karimabad, Imamwada Rd., Bombay 400009.

Janhit Mandal, Subash Niketan, Tejpal Scheme Main Rd., V. Parle East, Bombay 400057.

Kalinga Culture, 84, Gitanjali, Arthur Bunder Rd., Bombay 400005.

Kalyan Kendra, Rashtriya, 289/91, Nagdevi St., Bombay 400003.

Kannada Sangha, Bombay, 2, Venkatesh Nivas, Bhaudaji Rd., Matunga, Bombay 400019.

Keraleeya Samaj, Bombay, "Kerala Bhavanam", K. A. Subramanian Rd., Matunga, Bombay 400019.

Konkan Cultural Association, 10, Indian Mercantile Mansion, Opp. Regal Bombay, 400001.

Kusht Nivaran Sangh, Hind, Maharashtra State Council, Red Cross Office, 141, Mint Rd., Bombay 400001.

Lady Rattan Tata Memorial Trust, Bombay House, Bruce St., Fort, Bombay 400001.

Maha Bodhi Society of India, Bahujan Vihar, Buddha Temple St., Parel, Bombay 400012.

Mahilashram, Shraddhanand, King's Circle, Matunga, Bombay 400019.

Mai Adherents' Institute, Mai Niwas, Saraswati Rd., Santa Cruz West, Bombay 400054.

Malayalee Samajam, Santa Cruz, 14, Air View Bldg., Vakola, Bombay 400055.

Manav Seva Sangh, Shree, Plot No. 255/257, Sion Rd., Sion (West), Bombay 400022.

Marine Drive Citizens' Association, 'Kalpana', 96, Marine Drive, Bombay 400002.

Marwadi Sammelan, 111-B, Jayakar Marg., Bombay 400002.

Mothers and Children Welfare Society, Bombay, No. 10, B.D.D. Chawl, M. N. Joshi Marg, Bombay 400011.

Mothers' Lineage, Society for the Cause of, Plot R, 105, Theosophical Colony, Juhu, Bombay 400054.

Music and Arts Society, Bharatiya, Plot H, Bhaudaji Rd., Extn., Bombay 400022

Mysore Association, 393, Bhaudaji Rd., Matunga, Bombay 400019.

Nagpada Neighbourhood House, Sophia Zuber Rd., Byculla, Bombay 400008.

Activities : Medical and Family Planning Clinics, Children's Welfare Centre, Employment Bureau, Working Men's and Women's Hostels, Libraries for adults and children, Creche, Child Guidance Clinic ; Youth Counselling Centre, Class for Mentally Retarded Children ; Handicrafts Sales Centre, Guest House, Recreation Programmes.

Director : P. R. Gaikwad.

Nepal Friendship Society, Bharat, Nepal Traders Agency, 95, Bhandari St., Bombay 400003.

Panjrapole, Bombay, Bhuleshwar, Bombay 400004.

Parsee Benevolent Institution, Sir Jamsetjee Jeejeebhoy, 209, Dr. D. Naoroji Rd., Bombay 400001.

Parsi Punchayat Funds and Properties, 209, Dr. D. Naoroji Rd., Bombay 400001.

Passengers' and Traffic Relief Association, Anand Bhavan, 346, Dr. D. Naoroji Rd., Bombay 400001.

Prarthana Samaj, Girgaum, Bombay 400004.

Punjab Association, Behind King's Circle Railway Stn. Bombay 400022.

Railway Passengers Conference Association, Indian, 23, Bell Building, Sir P. Mehta Rd., Bombay 400001.

Assistance to railway passengers in their dealings with the Railways with regard to their obligations to each other ; restoration of run-away boys to their parents ; elimination of crimes on railways against the person and property of railway passengers ; free legal help to railway passengers, etc.

Ramakrishna Mission Ashram, Khar, Bombay 400052.

Red Cross Society, Indian, (Maharashtra State Branch) 141, Mint Rd., Bombay 400001.

Relief Association, Bombay, 115, Love Lane, Bombay 400010.

Religious Amity Centre, Mistry Court, 208, D. Watcha Rd., Bombay 400020.

Religious of Mary Immaculate, Regina Pacis, Seth Motishah Lane, Victoria Gardens, Bombay 400027.

1. Residential Training Centre, Club & Employment Bureau for Houseworkers. 2. Home and School for destitute children. 3. Hostel for working girls and students. 4. Regina Pacis Free Dispensary for the poor.

Safety First Association of India, Stadium House, Veer Nariman Rd., Bombay 400020.

Is devoted to conservation of life and property through efficiency ; acts as clearing house on accident prevention matters ; arranges lectures, exhibitions and film shows.

President : V. A. Jasdenvala.

Sahitya Sangh, Mumbai Marathi, Dr. Bhalerao Marg., Bombay 400004.

Samaj Seva Parishad, 141/A, Kalina, Santacruz (E), Bombay 400029.

Samiti, Shree Ayyappa Bhakta, Star of Cochin, Opp. Broadway Cinema, Dadar, Bombay 400014.

Sanshodhan Mandal, Marathi, Mumbai Marathi Grantha Sangrahalaya, 172, Naigaum Cross Rd., Bombay 400014.

Saraswat Association, Kanara, 13, Talmakiwadi, Tardeo Rd., Bombay 400007.

Scholarship Society, Taheri, Mohamedi Baug, 21, Sarang St., Bombay 400003.

Scouts and Guides, Bharat, Scout-Guide Bhavan, Marine Lines, Bombay 400020.

Sea Cadet Corps, T. S. "Jawahar", Pilot Bunder Rd., Bombay 400005.

The Sea Cadet Corps is a voluntary youth organisation whose objects are to give boys and girls aged 12 to 18 sea training and such other training as will develop in them qualities of good citizenship, and to help boys wishing to make their career at sea achieve their ambition. Has Units at Calcutta, Visakhapatnam, Madras and Tiruchirapalli. It is recognised by the Govt. of India and has the privilege of using the Blue Ensign. *Secretary to the Sea Cadet Council and Captain Supdt. of the Sea Cadet Corps :* G. S. Ahuja.

Servants of God, Society of, Mayfair, 34, Little Gibbs Rd., Bombay 400006.

Servants of India Society, Sardar V. Patel Rd., Bombay 400004.

Seva Sadan, Gamdevi, Bombay 400007.

Seva Sangh, Lokmanya, Tilak Mandir, Vile Parle, (East), Bombay 400057.

Sevak Samaj, Bharat, Narandas Bldg., Sprott Rd., B. Estate, Bombay 400001.

Seventh-Day Adventists, Central India Union of, 16, Club Rd., Bombay 400008.

Shanmukhananda Fine Arts and Sangeetha Sabha, Shri, 292, Flank Rd., Sion Matunga Estate, Bombay 400022.

Shilpi Kendra, Majestic, Colaba Causeway, Bombay 400001.

To promote, popularise and foster the traditional handicrafts of India and to give encouragement to the hereditary Indian craftsmen to practise their art.

Social Service, Institute of, 38, New Marine Lines, Bombay 400020.

Social Service League, Servants of India Society's Bldg., Vallabhbhai Patel Rd., Bombay 400004.

Social Welfare, Indian Council of, *Central Office:* 175, D. Naoroji Rd., Bobmay 400001.

President: Mrs. Mary Clubwalla Jadhav; *Executive Secy.:* S. D. Gokhale.

Social Welfare, International Council on, Regional Office for Asia and Western Pacific Region: 175, Dr. D. Naoroji Rd., Bombay 400001.

Sodality Charity Fund, Young Men's, 53, Mohamad Mansion, Gokhale Rd. (South), Dadar, Bombay 400028.

Sur-Singar Samsad, Arun, Narayan Dabholkar Rd., Bombay 400006.

Swastik League. 324A, Vithalbhai Patel Rd., Bombay 400004.

Tamil Sangham, Sion Rd., Bombay 400022.

Theosophical Society, Blavatsky Lodge, French Bridge, Bombay 400007.

Theosophists, United Lodge of, 40, New Marine Lines, Bombay 400020.

Trees, Friends of the, 42, College Lane, Bombay 400028.

Trust, Sir Dorabji Tata, Bombay House, Bruce St., Bombay 400001.

United Kingdom Citizens' Association, Cook's Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Vanita Samaj, Bharatiya, Nair Mahal, Tulsi Pipe Rd, Bombay 4000016.

Vanita Vishram, Sardar V. Patel Rd., Bombay 400004.

Vidnyan Parishad, Marathi, Tardeo Airconditioned Market, Bombay 400034.

Vigilance Association, Bombay, 124, Dadasaheb Phalke Rd., Bombay 400014.

The objects of the Association are (1) to secure recognition of the principle that the Moral law is the same for both men and women; (2) to suppress and prevent the traffic in women; (3) to do rescue and vigilance work in general; (4) to prevent the publication and sale of indecent and obscene pictures, books and papers, and of objectionable advertisements, cinema films and theatrical performances, and it maintains a shelter for forsaken and destitute women & children of all communities.

Visva Yoga Bharati, Vallabhnagar, Borivli, Bombay 400092.

Women's Council, Maharashtra State, Town Hall, Bombay 400001.

Yoga Institute, Santa Cruz, Bombay 400055.

Yogic Self-Culture Society, 5, Vallabhnagar, Borivli, Bombay 400092.

Young Men's Hindu Association, 141, V. Patel Rd., Bombay 400004.

Youth Circle, Mulund Colony, 142/261, Mulund, Bombay 400082.

Yuvak Sangha, Mogaveera, 46, Veer Nariman Rd., Bombay 400020.

PROFESSIONAL AND SPORTS

Advocates' Association, Bombay, Small Causes Court, Dhobi Talao, Bombay 400002.

Aeronautical Society of India, Near Postal Hangars, Old Airport, Bombay 400029.

Agricultural Economics, Indian Society of, Esplanade Mansions, M. Gandhi Rd., Bombay 400001.

Anthropological Society of Bombay, C/o K. R. Kama Oriental Library, 136, Apollo St., Bombay 400001.

Anti-Tuberculosis Association, Maharashtra State, Red Cross Bldg., Mint Rd., Bombay 400001.

Architects & Surveyors (London), Incorporated Association of, (India Branch) 24-26, Dalal St., Bombay 400001.

Art & Craft Teachers' Association, Bombay, 62, Gujar St., Block 33, Bombay 400003.

Art Society, Bombay, Jehangir Art Gallery, Bombay 400001.

Ayurvedic and Unani Systems of Medicine, Maharashtra Board of, Esplanade Mansions, 144, M. Gandhi Rd., Bombay 400001.

Badminton Association, Maharashtra State, Brabourne Stadium (North Stand), Bombay 400020

Bar Council of Maharashtra, High Court Extn., Fort, Bombay 400032.

Basketball Association, Maharashtra State, 4/24, Brahmanwada Rd., Bombay 400019.

Billiards Association, Maharashtra State, C/o Islam Gymkhana, Kennedy Sea Face, Bombay 400002.

Bridge Association, Bombay Contract, Brabourne Stadium (North Stand), Bombay 400020.

Bridge Federation of India, Brabourne Stadium (North Stand), Bombay 400020.

Cancer Society, Indian, Dr. E. Borges Marg, Parel, Bombay 400012.

Scientific investigation of the cause, prevention and control of Cancer, public education on Cancer and education of the medical profession in latest methods of detection, diagnosis and treatment of Cancer; combating quackery; sponsoring of research — both fundamental and clinical on the diagnosis, treatment and cure of Cancer; establishment of free detection centres, in various centres throughout India, establishing international co-operation in research, encouraging visiting professorships, awarding scholarships and fellowships in Cancer Cytology, Chemotherapy and Rehabilitation; giving relief and rehabilitation to indigent Cancer patients; donating apparatus to hospitals and research institutions; organising All India Cancer Conferences, establishing population — based Cancer Registries in different parts of India, undertaking public education in the facts about Cancer by various means including Cancer Exhibitions, etc. Publication: The Indian Journal of Cancer — Quarterly.

Honorary Founder-Secretary & Managing Trustee: D. J. Jussawalla, M.S., F.R.C.S., F.A.C.S.

Carrom Association, Maharashtra State, Brabourne Stadium (North Stand), Bombay 400020.

Chartered Accountants Society, Bombay, 60, Forbes St., Bombay 400001.

Chemical Society, Indian, (Bombay Branch), Institute of Science, Mayo Rd., Bombay 400001.

Costs and Works Accountants of India, Institute of, Hassan Chambers, Ghogha St., Bombay 400001.

Custom House Agents' Assocation in India, Federation of, Warden House, Sir P. Mehta Rd., Bombay 400001.

Dairymen's Association, B/15, Worli Dairy Staff Quarters, Worli Sea Face, Bombay 400018.

Dental Council, Maharashtra State, Swadeshi Mills Estate, M. Parmanand Marg, Bombay 400004.

Diabetic Association of India, Maneckji Wadia Bldg., 127, M. Gandhi Rd., Bombay 400001.

Employment Exchange Bureau Unlimited, Friends', 65, Chinchbunder Rd., Bombay 400009.

Engineering Association of India, 87, Veer Nariman Rd., Bombay 400001.

Engineering Association, Indian, Mackinnon Mackenzie Bldg., B. Estate, Bombay 400001.

Chairman : R. D. Pusalkar ; *Dy. Chairman :* B. G. Doshi ; *Secretary :* Frank D'Souza.

Engineering and Commerce, Indian Society of, Commonwealth Bldg., Oak Lane, Bombay 400001.

Engineers, Architects & Townplanners' Association, Practising, C/o G. L. Raheja & Associates, Rampart House, Rampart Row, Bombay 400001.

Engineers, Bombay Society of Model, 23/24, Noble Chambers, Parsi Bazar St., Bombay 400001.

Engineers (India), Institution of, Ilaco House, Sir P. Mehta Rd., Bombay 400001.

Engineers' Association (India), Mechanical, 29, Walchand Hirachand Marg, Bombay 400001.

English-Speaking Union of the Commonwealth, C/o British Council, French Bank Bldg., Homji St., Bombay 400001.

Estate Agents' Association of India, Sheel Chambers, Cawasji Patel St., Bombay 400001.

Football Association, Western India, Cooperage Football Ground, Bombay 400020.

Football Federation, All India, 92, Dr. D. Naoroji Rd., Bombay 400001.

Haemotologists, Indian Society of, C/o Dr. J. G. Parekh, Parekh House, New Queen's Rd., Bombay 400004.

Heart Disease & Rehabilitation, Society for the Prevention of, Sunbeam, Vivekanand Rd., Bombay 400060.

Homoeopathic Association, Bombay, 311, Tardeo Rd., Bombay 400007.

Industrial Engineers, Indian Institution of, NITI Campus, Vihar Lake Rd., Bombay 400087.

Insurance Surveyors & Adjusters, Institute of, Lakshmi Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.

Journalists, Bombay Union of, Prospect Chambers Annexe, Dr. D. Naoroji Rd., Bombay 400001.

Junior Chamber, Indian, Akash Ganga, 89, Bhulabhai Desai Rd., Bombay 400036.

Justices of the Peace and the Honorary Presidency Magistrates of Bombay, Society of the, 116, Giriraj, Sant Tukaram Rd., Bombay 400009.

Law Society, Bombay Incorporated, High Court New Bldg., Bombay 400001.

Local Self Government, All India Institute of, 11, Horniman Circle, Bombay 400001.

Management Consultants' Association of India, C/o Gauba Consultants P. Ltd., Kakad Chambers, Dr. A. Besant Rd., Bombay 400018.

Maritime Union of India, 204, Dr. D. Naoroji Rd., Bombay 400001.

President : Smt. Maniben Kara, *General Secretary,* J. D. Randeri.

Master Mariners of India, Company of, C/o Ericson & Richards, 32, Nicol Rd., B. Estate, Bombay 400001.

Materials Management, National Association of, Cecil Court, Lansdowne Rd., Bombay 400001.

Medical Association, Indian, (*Bombay Branch*), Keshavrao Khadye Marg, Bombay 400034.

Medical Council, Maharashtra, Swadeshi Mills Estate, M. Parmanand Marg, Bombay 400004.

Medical Union, Bombay, Blavatsky Lodge, French Bridge, Chowpatty, Bombay 400007.

Mental Hygiene, Indian Council for, Cambatta Chambers, 42, Maharshi Karve Rd., Bombay 400020.

Moral and Social Hygiene, Association for, Barrack No. 4, Dinshah Wachha Rd., Bombay 400020.

Neurological Society of India, 534, Sandhurst Bridge, Bombay 400007.

Newspapers' Association, Indian Languages, Janmabhoomi Bhavan, Ghogha St., Bombay 400001.

Nursing Association, Jamsetjee Jeejeebhoy Hospital, Shale Bldg., Bank St., Bombay 400001.

Nursing Council, Maharashtra, Gresham Assurance Bldg., Sir P. Mehta Rd., Bombay 400001.

Oil Technologists' Association of India, Deptt. of Chemical Technology, Matunga Rd., Bombay 400019.

P. E. N. All India Centre, Theosophy Hall, 40, New Marine Lines, Bombay 400020.

Indian Branch of the International P.E.N. Club of leading poets, playrights, editors, essayists, novelists.

Performing Arts, National Centre for the, 89, B. Desai Rd., Bombay 400026.

Pharmacy Council, Maharashtra State, 5, Military Square Lane, Bombay 400001.

Philatelic Society of India, D. E. Wadia, 'B' Block, Shireen Mansion, Tardeo Rd., Bombay 400007.

Physically Handicapped, Fellowship of the, Haji Ali Park, Mahalaxmi, Bombay 400034.

Physicians of India, Association of, 21, Karve Marg, Bombay 400004.

Press Association of India, 196B, Gaiwadi, Girgaum, Bombay 400004.

Press Guild of India, Majestic Hotel, Bombay 400001.

Productivity Council, Bombay, Hassan Chambers, Ghogha St., Bombay 400001.

Property Owners' Association, Bansilal Mansion, 11, Bruce St., Bombay 400001.

Sales Tax Practitioners' Association, Mohatta Market Bldg., Palton Rd., Bombay 400001.

Seafarers' Federation, United, Podar Chambers, Donde Marg, Bombay 400012.

Seafarers of India, National Union of, 4, Goa St., Bombay 400001.

Secretaries, Institute of, Lentin Chambers, Dalal St., Bombay 400001.

Tenants' Association, Maharashtra Licencee, 9-11, Dean Lane, Bombay 400001.

Tennis Association, Maharashtra State, Brabourne Stadium (North Stand), Bombay 400020.

Tourist Council, International, Darya Bldg., Dr, D. Naoroji Rd., Bombay 400001.

EDUCATIONAL AND RESEARCH

Alliance Francaise De Bombay, French Bank Bldg., 21, Homji St., Bombay 400001.

Anglo-Scottish Education Society, 6, Purshottam Thakurdas Marg, Bombay 400001.

Apprentice School, Dockyard, Naval Dockyard, Fort, Bombay 400001.

Dockyard Apprenticeships are offered to boys between 14-19 years under Apprenticeship Act, 1961 twice yearly in March and September. Competitive examinations and interviews are held in various recruiting centres in India. Period of apprenticeship three years.

Architects, Indian Institute of, Prospect Chambers Annexe, Dr. D. Naoroji Rd., Bombay 400001.

Architecture, Academy of, Javeri House, 110, Medows St., Bombay 400001.

Art, Sir Jamsetjee Jeejeebhoy School of, Dr. D. Naoroji Rd., Bombay 400001.

Asian Studies, Indian Institute of, 23, Azad Nagar, J. Prakash Rd., Bombay 400058.

Bankers, Indian Institute of, State Bank Bldg., Apollo St., Bombay 400001.

Bharatiya Vidya Bhavan, K. Munshi Marg, Bombay 400007.

Bharatiya Vidya Bhavan, an institution founded in 1938, by late Kulapati Dr. K. M. Munshi, is devoted to the promotion of education, art and culture, having branches all over India and London (U.K.).

President : Smt. Lilavati Munshi; *Vice-Presidents :* Girdharilal Mehta, Jaisukhlal Hathi; *Executive Secretary :* S. Ramakrishnan.

Blind, National Association for the, 51, Mahatma Gandhi Rd., Bombay 400001.

Aims and Objects.—To work in the whole of India for the prevention and cure of blindness and for the welfare of the blind.

President : Mrs. Queenie H. C. Captain; *Honorary Secretary-General :* Capt. H. J. M. Desai; *Executive Officer :* Suresh C. Ahuja.

Blind, Workshop for the, Dr. A. Besant Rd., Worli, Bombay 400025.

To provide work experience & training in skilled and semi-skilled jobs and to assist the trained blind to get open competitive employment.

Chairman : Vijay M. Merchant; *Hon. Secretaries :* Prabodh B. Vaidya, M. H. Mirchandani, Lt. G. L. Nardekar, Capt. H. J. M. Desai.

Blindmen's Association, 81-A, Jaldarshan, Nepean Sea Rd., Bombay 400036.

(Affiliated Associations at Ahmedabad & Poona).

Activities : Services to provide higher education to deserving blind students; Interest free loans for starting small business ventures, medical treatment and other projects leading to social or economical rehabilitation; Annual picnics; Annual Braille reading competitions for blind children and adults in Gujarat & Maharashtra; Home visitor-*cum*-social case work service for the newly blinded and the home-bound blind.

Hon. Gen. Secy.: Dr. Rajendra T. Vyas.

Building Industries, Vazifdar College of, 17, Arthur Bunder Rd., Colaba, Bombay 400005.

Catering Technology and Applied Nutrition, Institute of, Sawarkar Marg, Bombay 400028.

Cercle Litteraire Bibliotheque Dinshaw Petit—60, Forbes St., Bombay 400001.

Object : To promote the study of French language, literature and civilization, Library and Reading Room.

Children in need of Special Care, Society for the Care, Treatment and Training of, Sewri Hill, Sewri Rd., Bombay 400015.

Children in Western India, Society for the Protection of, Byramjee Jeejeebhoy Home for Children, Matunga, Bombay 400019.

Commerce, Alexandra College of, Prospect Chambers Annexe, Dr. D. Naoroji Rd., Bombay 400001.

Commerce, Laxmi College of, Sharadashram Vidyamandir, Dadar, Bombay 400028.

Commerce, Law, Economics and Banking, Davar's College of, Jehangir Wadia Bldg., 51, M. Gandhi Rd., Bombay 400001.

Co-operative Training Centre, Bombay, 11, Bank St., Bombay 400001.

Crippled, Society for the Education of the, Agripada Municipal School Bldg., Motlibai St., Bombay 400011.

Crippled Children, Society for the Rehabilitation of, Haji Ali Park, Clerk Rd., Bombay 400011.

Deaf, Central Institute of Teachers of the, 18, Motlibai St., Agripada, Bombay 400011.

To provide full time education to deaf children and to train teachers; to give advice to parents on how best to guide their children; to integrate in normal schools capable deaf children to enable them to lead a normal life from an early age.

Education Committee, Bombay City Social, Samaj Shikshan Mandir, Adarsha Nagar, Worli, Bombay 400025.

Education Institute, Bombay, Ganga Nivas, Ranade Rd., Dadar (W.R.), Bombay 400028.

Education Society, Aryan, 75, Girgaum Rd., Bombay 400004.

Education Society, Bombay, Clare Rd., Byculla, Bombay 400008.

Education Society, Bombay Higher, Mistry Court, Dinshaw Vachha Rd., Bombay 400020.

Aims and Objects : To provide and promote higher education by giving financial aid to the needy and deserving students belonging to the educationally-backward communities.

Education Society, Jain, 14, Marzban Rd., Bombay 400001.

Education Society, National Kanada, Sewri-Wadala Estate, Bombay 400031.

Conducts a High School at Sewri-Wadala Estate, Bombay 400031.

Education Society, People's, Anand Bhavan, Dr. D. Naoroji Rd., Bombay 400001.

Object : To promote higher education amongst the poorer people in general and the Backward classes in particular. The Society runs 3 Colleges, 3 Diploma Institutes, 1 Night High School and a Research Centre in Bombay. 4 Colleges, 2 High Schools and a Buddhist Centre at Aurangabad and 1 College in Mahad; 2 Backward Classes Hostels, one at Pandharpur and the other at Dapoli (Dist. Ratnagiri). The Society gives annual grant-in-aid to the Backward classes Hostel at Manmad, Nandurbar, Chalisgaon, Poona, Mahad, Nipani, Dholka and Patan.

Education Society, Rao Bahadur S. V. Rajadhyaksha G. S. B. Foreign, Chikitsaka Samuha Bldg., Kandewadi, Bombay 400004.

Education Society, Young Men's, 18, Karwar St., Bombay 400001.

Educational League, Bombay, Shri Bhuwan, 169/20, Thakurdwar Rd., Bombay 400002.

Educational and Vocational Guidance Association, All India, 25, Souter St., Bombay 400008.

Electrical Measuring Instruments, Institute for Design of, Mathuradas Vasanji Rd., Saki Naka, Bombay 400072.

The Institute has been set up by the Govt. of India under U.N. Assistance Programme for the development of Electrical Measuring and Process Control Instruments industries in the country by way of providing assistance in the design of instruments, testing and calibration facilities and training of instrument designers.

Principal Director : R. N. Gandhi.

Family Planning Association of India, 1, Jeevan Udyog, Dr. D. Naoroji Rd., Bombay 400001.

Has 28 Branches. Activities include education and service for family planning, training of medical and field personnel, clinical and field research, and programmes in population education.

President : Smt. Avabai B. Wadia.

Fisheries Education, Central Institute of, Kakori Camp, Jaiprakash Rd., Bombay 400058.

Foreign Languages Bureau, Nandan Van, 2, Nandan Van, Behind Dena Bank, Santacruz East, Bombay 400055.

Fundamental Research, Tata Institute of, Homi Bhabha Rd., Bombay 400005 (Estd. 1945).

The Institute carries out fundamental research in physics, mathematics and allied sciences.

The Institute is managed by a Council consisting of the representatives of the Govts. of India and Maharashtra and the Sir Dorabji Tata Trust.

J. R. D. Tata (*Chairman*); Professor M. G. K. Menon, F.R.S. (*Director*).

Gemmological Institute of India, C/o Precious Stone Importers & Exporters Assocn., Gurukul Chambers, Mumbadevi Rd., Bombay 400002.

The Institute provides facilities for study of gemmology and for testing weighment and valuation of gem stones of all kinds, thereby introducing scientific methods in the precious stones trade.

Haffkine Institute, Parel, Bombay 400012.

It undertakes research in the fields of bacteriology, experimental medicine, chemotherapy, pharmacology, pathophysiology, biochemistry, haematology, immunology and virology. It manufactures some bacterial and viral vaccines, antitoxins, plasma products, diagnostic reagents and other biologicals. It also undertakes biological standardization and evaluation of drugs. Scientists may study here for Master's or Doctorate degrees or could be trained in specialised fields.

Director : Dr. B. B. Gaitonde.

Handicapped, National Society for Equal Opportunities for the, 95-K, Park, Bhulabhai Desai Rd., Bombay 400026.

IMC Economic Research and Training Foundation, 76, Veer Nariman Rd., Bombay 400020.

Indian Languages, Oriental Institute of, 32, Khorshed Bldg., Sir P. Mehta Rd., Bombay 400001.

Industrial Economics, Institute of, Bombay Mutual Chambers, Hamam St., Bombay 400001.

Industrial Engineering, National Institute for Training in, Vihar Lake Rd., Bombay 400087.

The Institute is a Govt. of India Project undertaken with the assistance of the United Nations Special Fund through the International Labour Organisation. The main objective is to organise and develop in India comprehensive facilities for training executives in the area of Industrial Engineering and allied subjects.

The Institute has also started research and consultancy activities. A two-year Post Graduate Programme in Industrial Engineering was started from July 1971.

Director : Prof. N. S. Ramaswamy.

Industrial Research & Development Centre, M. Visvesvaraya, Jeevan Shankar, Sir P. Mehta Rd., Bombay 400001.

Industrial Safety, Council of, Elphinstone Bldg., Veer Nariman Rd., Bombay 400001.

Industrial Security, Institute for Training in, Farmeo House, Shastri Marg, Vikhroli, Bombay 400083.

Industry & Administration, Siddharth Institute of, Anand Bhavan, Dr. D. Naoroji Rd., Bombay 400001.

Instructors, Central Training Institute for, Sion-Chembur Rd., Bombay 400070.

Inter-Religious Understanding, Institute for, Aquinas Hall, Mount Mary, Bombay 400050.

Jamsetjee Nasserwanjee Petit Institute, 312, Dr. D. Naoroji Rd., Bombay 400001.

Labour Institute, Bombay, (Govt. of Maharashtra), Dadabhoy Chamarbaugwala Rd., Parel, Bombay 400012. Recognised by the Bombay Univ. as a post-graduate institute of specialised studies leading to 2-year University Masters' Degree in Labour Welfare (M.L.W.). The course is open to candidates with a Bachelor's Degree of Bombay Univ. in any faculty or a degree of another Univ. recognized as equivalent thereto. The Institute also guides students for Ph. D. and the admissions are open to the D.L.W., or M.L.W. students.

Labour Management, National Institute of, M. G. Textile Technical School Premises, Parel, Bombay 400012.

Leather Technology, Institute of, Bombay 400051.

Local Self-Government, All-India Institute of, 11, Horniman Circle, Bombay 400001.

Management, Indian Chapter of Society for Advancement of, 5, Ibrahim Bldgs., Tulsipipe Rd., Dadar, Bombay 400028.

Management, M.M.C. School of, Court Chambers, New Marine Lines, Bombay 400020.

Management Association, Bombay, Army and Navy Bldg., Mahatma Gandhi Rd., Bombay 400001.

Aims : To promote mutual exchange of knowledge, experience and ideas on the principles and practices of Management among its members; to co-operate with educational institutions in developing schemes of instruction in Management principles and practices; to establish a Management Library in the Bombay area.

Marine Technologists, Institution of, C/o Ericson & Richards, 32, Nicol Rd., B. Estate, Bombay 400001.

Mathematical Science, Society of, C/o Indian Institute of Technology, Powai, Bombay 400076.

Natural History Society, Bombay, Prince of Wales Museum Compound, Bombay 400001.

Nature Cure Society, Citizen's, C/o Dr. J. M. Jussawalla, 140, Cumballa Hill, Bombay 400026.

Occupational Therapy Training School and Centre, K. E. M. Hospital, Parel, Bombay 400012.

Oriental Institute, K. R. Kama, 136, Apollo St., Bombay 400001.

Packaging, Indian Institute of, 254-C, Dr. A. Besant Rd., Prabhadevi, Bombay 400025.

The Institute aims at improving the packaging pattern presently adopted in the country, particularly in the context of promotion of exports. With this end in view, the Institute offers technical consultancy services to the Industries, graphic design services, testing facilities, training facilities for the personnel of the Industries, intensive training programmes to develop packaging and technologists and information services by way of technical publications.

Director : Major N. V. R. Iyengar.

Physical Education, Government Training Institute for, Kandivli, Bombay 400067.

Physical Medicine and Rehabilitation, All India Institute of, Haji Ali Park, Clerk Rd., Mahalaxmi, Bombay 400034.

Population Studies, International Institute for, Govandi Station Rd., Deonar, Bombay 400088.

The Institute is jointly sponsored by the Govt. of India and the United Nations Economic Commission for Asia and the Far East for purposes of teaching and research in the field of population problems in India as well as in other Asian countries. It is the only Institute of its kind in Asia.

Director : Dr. S. N. Agarwala.

Puppetry, Indian Institute of, Datta Nivas, Shivaji Park Rd., No. 5, Bombay 400016.

Radio Electric Institute, Lamington Chambers, Dadasaheb Bhadkamkar Rd., Bombay 400004.

Refraction, Bombay School of, Parker Bldg., 10, Cawasji Patel St., Bombay 400001.

Reproduction, Institute for Research in, Opp. K. E. M. Hospital, Parel, Bombay 400012.

Objects : Fundamental applied research in reproduction. Search for the ideal contraceptives — cheap, simple, harmless, reliable and acceptable — by clinically testing and evaluating the many new ones being developed.

Rubber Manufacturers' Research Association, Indian, B-88, Wagle Estate, Thana.

Sanskrit Vishva Parishad, (World Academy of Sanskrit), Bharatiya Vidya Bhavan, K. Munshi Marg, Bombay 400007.

Saraswat Vidyarthi Sahayak Mandali, Chikitsaka Samuha Bldg., Kandewadi, Bombay 400004.

Science, Institute of, 15, Cama Rd., Bombay 400032.

Shipping, Shri Narottam Morarjee Institute of, Tanna House, 11 A, Wodehouse Rd., Bombay 400001.

Set up under the joint auspices of Govt. and the shipping industry. It provides training facilities to those working in the shipping industry and allied activities like Chartering, Marine Insurance, Economics of Sea Transport, etc.

Silk and Art Silk Mills' Research Association, 'Sasmira', Dr. A. Besant Rd., Bombay 400018.

Social Sciences, Tata Institute of, Sion-Trombay Rd., Deonar, Bombay 400088.

Founded by Sir Dorabji Tata Trust in 1936, this pioneer institution, which is deemed to be a university, offers programmes of training leading to the Ph.D. degree in Social Work, Ph.D. degree in Social Sciences; M.A. degree in Social Work in the fields of Criminology and Correctional Administration, Family and Child Welfare, Medical and Psychiatric Social Work, Social Research, Urban and Rural Community Development, Social Welfare Adm., M.A. degree in Personnel Management and Labour Welfare.

The Institute provides accommodation for about 130 resident men and women students and some members of the staff.

Director : Dr. M. S. Gore ; *Registrar :* N. Krishnamoorthy.

St. Francis D'Assisi High School and Orphanage, Mount Poinsur, Borivli, Bombay 400092.

Statistical Institute, Indian, Nanabhai Mansion, Sir Pherozeshah Rd., Bombay 400001.

Surgery, Rehabilitation & Research Society for Reconstructive, C/o Tata Deptt. of Plastic Surgery, J. J. Group of Hospitals, Bombay 400008.

Synthetic Jurisprudence, Indian School of, 29-A, Balaram St., Bombay 400007.

Technical Institute, Victoria Jubilee, Matunga, Bombay 400019.

Technology, Indian Institute of, P.O.I.I.T., Bombay, Powai, Bombay 400076.

The Institute provides instruction and facilities for research, in various branches of Science, Engineering and Technology Humanities and Applied Arts and for the advancement of learning and dissemination of knowledge in all such branches.

The Institute is fully residential and has accommodation for 2,350 students.

Director : Dr. P. K. Kelkar.

Textile Research Association, Bombay, Bombay-Agra Rd., Ghatkopar, Bombay 400077.

Wool Research Association, C/o Textile Mfg., Dept., V.J.T.I. , Matunga, Bombay 400019.

Yoga Science University, Yogamahavidyalaya Vidjnan Vidyapeeth, Purushottam Bldg., 3 Maharshi Karve Rd., Bombay 400020.

Associations in Maharashtra Districts

COMMERCIAL

Ancillary Industries Corpn. (Regd.), Kolhapur, 1038, E. Rajaram Rd., Uduyamnagar, Kolhapur, 416001.

Booksellers Association, Poona, C/o Dastane Ramchandra & Co., 455, Kasba Peth, Pune 411002.

Hardware and Steel Merchants Association, Nagpur, Lahaoli, Itwari Bazar, Nagpur 440002.

Industries Association, Aurangabad, 15-A, Ind. Estate, Aurangabad 431001.

Industries Association, Vidarbha, Bank of Maharashtra Bldg., Sitabuldi, Nagpur 440001.

Iron and Steel Association, Poona, 150, Nanapeth, Pune 411002.

Kalyan Ambarnath Manufacturers' Association, New Municipal Bldg., Kalyan.

Management Association, Nagpur, C/o Nag-Vidarbha Chamber of Commerce, Temple Rd., Nagpur 440001.

Manufacturers' Association, Deccan, "Rose Cottage", Sangli Madhavnagar Rd., Sangli 416416.

Mineral Industry Association, 'Mineral House', Nagpur 440001.

Mining Association, M. P. & Vidarbha, Post Box No. 8, Nagpur 440001.

Oil Industry Association, All India Non-Edible, 'Taru Sneha', 1153, Ganeshkhind Rd., Pune 411016.

Orange Growers' Co-operative Association Ltd., Nagpur, Motibagh, Nagpur 440001.

Paper Traders' Association, Poona, 495, Shanwar Peth, Pune 411002.

Poultry Association, Maharashtra State, C/o Poultry Dev. officer, Govt. of Maharashtra, Pune 411003.

Powerlooms Owners' Association, Madhavnagar, 292, Main Rd., Madhavnagar.

Pressowners' Association, Ahmednagar, Ahmednagar 414001.

Press Owners' Association Ltd., Poona, 'Mudrak Bhavan', 1078, Sadashiv, Peth, 411002.

School Books Publishers' Association, Maharashtra, 2040, Sadashiv Peth, Tilak Rd., Pune 411030.

Small-Scale Industries Association, Ahmednagar, C/o Ganpatdas Magandas Newaskar, M. G. Rd., Ahmednagar 414001.

Small-Scale Industries Association, Vidarbha, Liberty Bldg., Sadar, Nagpur 440001.

Spices and Oilseeds Exchange Limited, Wakhar Bagh, P. Bag No. 162, Sangli 416416.

The only Exchange in India recognised for control and regulation of forward trading in Turmeric.

Chairman : J. D. Thakkar, *Vice-Chairman :* S. K. Adke, *Secretary :* M. R. Purandare.

Spinning Mills Ltd., Federation of Co-op., Vivek, 636, Sadashiv Peth, Parvati Rd., Pune 411030.

Stationery, Cutlery and General Merchants' Association, 794, Sadashiv Peth, Pune 411002.

Textile Mills' Association, Subedhar's Bungalow Rd., B. Street 4, Dhantoli, Nagpur, 440001.

CULTURAL, SOCIAL AND PROFESSIONAL

Altrusa Club (Association of Women in Profession & Business), C/o Dr. (Miss) S. Iyengar, L. A. D. College for Women, Nagpur, 440001.

American Marathi Mission, Ahmednagar 414001.

Anath Vidyarthi Griha, Ahmednagar 414001.

Anath Vidyarthi Griha, Poona, 1786, Sadashiv, Pune 411002.

Art Centre, International, 280, Gandhi Square, Sadar Bazar, Nagpur 440001.

Blind Men's Association, Poona, 82, Rasta Peth, Pune 411002.

Blind Relief Association, South Ambazari Rd., Nagpur, 440001.

Child Welfare, Ahmednagar District Council for, Ahmednager 414001.

Co-operative Society Ltd., Kolhapur Udyam, Shivaji Udyam Nagar, Kolhapur 416001.

Engineers (India), Institution of, North Ambazari Rd., Nagpur 440001.

France Association, Friends of, C/o A. S. Apte, 1226/5, Hira Nivas, Deccan Gymkhana, Pune, 411004.

Horticultural Development Association, Maharashtra State, Horticultural Secn., Coll. of Agriculture, Pune 411005.

India Foundation, 595, Budhwar, Pune 411002.

Grants of scholarship and financial aid, gifts or loans, to students of outstanding merit in education, in India and abroad, irrespective of caste, creed, religion or language.

Industrial Museum, Lord Reay, Ghole Rd., Pune 411004.

Leprosy Relief Association, Ahmednagar District, Ahmednagar 414001.

Literature and Culture, Maharashtra State Board for, Viswakosha Unit Office, C/o Prajna Pathshala, Wai P.O.

Maharogi Seva Mandal, Vidarbha, Tapovan, Amravati 444601.

A social organisation started mainly for the treatment of leprosy patients and eradication of leprosy from the State; also rehabilitation of cured cases and educational facilities upto Matriculation for leprosy afflicted children. Also runs Small-Scale Industries for ex-leprosy patients.

Medical Association, Ahmednagar, Ahmednagar 414001.

Medical Association of India, Christian, Christian Council Lodge, Nagpur 440001.

Medical Centre, Miraj, Miraj 440001.

Physical Education and Recreation, India, National Association of, Mahal, Nagpur 440001.

Sarvodaya Centre, Rajur, Akola 444001.

Science, Maharashtra Association for the Cultivation of, Pune 411004.

Servants of India Society, Pune 411004.

The Society's work is primarily political but it also does tribal welfare work in the Mirzapur Dist. (U.P.), Madras, Andhra Pradesh, Orissa and in Malabar on a considerable scale.

Seva Sadan Society, Poona, 613-614, Sadashiv Peth, Pune 411002.

Seva Sangh, Sarva, Gopuri, Wardha 442001.

To build a stateless and non-exploitative Society based on truth and non-violence.

Sharada Udyog Mandir, Near Jaystambha, Amravati 444601.

It is a charitable and industrial institution to help widows and poor women by teaching handicrafts, tailoring, embroidery, etc.

University Women's Associations, Indian Federation of, 598, Congress Nagar, Nagpur 440001.

Youth Hostels' Association of India, 87, West Park Rd., Dhantoli, Nagpur 440001.

EDUCATIONAL AND RESEARCH

Agricultural Research Institute, Nimbkar, Phaltan (Dist. Satara).

Co-operative Management, Vaikunth Mehta National Institute of, Reserve Bank Bldgs., Ganeshkhind Rd., Pune 411016.

Dharmakosha Mandal, P. O. Wai.

To conduct research in ancient Indian religion, philosophy and culture and to edit and publish encyclopaedic works such as Dharmakosha, Mimamsakosha, etc.

Education Society, Ahmednagar, Ahmednagar 414001.

Education Society, Camp, Pune 411001.

Education Society, Deccan, Fergusson Coll , Pune 411004.

Education Society, Prince Shivaji, Sykes Extension, Kolhapur 416001.

Education Society, Progressive, Shivajinagar, Pune 411005.

Film and Television Institute of India, Law College Rd., Pune 411004.

German Studies, Indian Institute of, Goethe Institute, 14/3B, Boat Club Rd., Pune 411001.

Handmade Paper Institute, K. B. Joshi Rd., Pune 411005.

Loka Vidyapitha, Shri Shivaji (Peoples University of Literature, Arts, Crafts and Culture), Shivaji Nagar, Morshi Rd., Amravati 444001.

Management, Indian Chapter of Society for Advancement of, Behind Power House, Sadar, Nagpur 440001.

Mouni Vidyapeeth, Shri, Gargoti, Kolhapur 416001.

It is a research and experimental centre in the field of rural education.

Oriental Research Institute, Bhandarkar, Pune 411004.

Philosophy, Indian Institute of, Amalner.

Politics and Economics, Gokhale Institute of, Pune 411004.

Post-Graduate and Research Institute, Deccan College, Yervada, Pune 411006.

Prasaraka Mandali, Shikshana, S. P. College Bldgs., Pune 411030.

The main object of the Society is to give education at moderate cost, by starting schools, colleges, etc.

Road Transport, Central Institute of, (Training & Research), Bhosari, Pune 411012.

Samshodhana Mandal, Vidarbha, (Vidarbha Research Society), Near Law College, West High Rd., Nagpur 440001.

Samshodhaka Mandala, Bharata Itihasa, 1321, Sadashiv Peth, Pune 411002.

Samsodhana Mandala, Vaidika, Tilak Vidyapeeth Nagar, Pune 411009.

Social Service, Karve Institute of, Karvenagar, Pune 411004.

Textbook Production & Curriculum Research, M.S. Bureau of, 'Balbharati', Senapati Bapat Marg, Pune 411004.

Tropical Meteorology, Indian Institute of, Ramdurg House, Pune 411005.

An autonomous research organisation devoted to studies of different aspects of tropical meteorology including prediction of monsoons and artificial stimulation of clouds.

Village Industries, Jamnalal Bajaj Central Research Institute for, Maganwadi Wardha, Pune 442001.

Director : Dr. R. K. Shrivastava.

Virus Research Centre (Indian Council of Medical Research), 20A, Wellesley Rd., Pune 411001.

Established in 1952 as a joint endeavour of the Indian Council of Medical Research and the Rockefeller Foundation. It is a specialised institution with modern facilities for research on some fundamental aspects in Virology, Immunology, Tissue Culture and Medical Entomology. Since its inception, the Centre has undertaken training of a large number of research workers in Virology not only from India but also from Burma, Ceylon, Malaysia, Philippines, Thailand, etc.

Director : Dr. N. P. Gupta.

Water and Power Research Station, Central, Khadakvasla South, Pune 411004.

Yogic Research, Training and Therapeutic Institute, Kaivalyadhama S.M.Y.M. Samiti, Lonavla (C. Railway).

MYSORE

COMMERCIAL

Automobile Association of Southern India, 18, St. Mark's Rd., Bangalore 560001.

Automobile Dealers' Association, Mysore State, Sundaram Motors Bldg., 2-2A, Kasturba Rd., Bangalore 560001.

Automobile Parts and Allied Merchants' Association, Mysore, 17, Ramakrishna Bldg., Narasimharaja Rd., Bangalore 560002.

Cashew Manufacturers' Association, Mangalore, Bunder, Port Rd., Mangalore 575001.

Commercial Association, Bangalore, 45, Commercial St., Bangalore 560001.

Electric Lamp and Component Manufacturers' Association of India, C/o Metal Map Caps (I) P. Ltd., 2, Murphy Rd., Ulsoor, Bangalore 560008.

Electrical Contractors' Association of Mysore, Licensed, 528, Avenue Rd., Bangalore 560002.

Film Chamber of Commerce, Mysore, Prabhat Talkies Bldgs., Kempegowda Rd., Bangalore 560009.

Flat Tape Manufacturers' Association, All India, 17, Platform Rd., Bangalore 560023.

Handloom Cloth Merchants' Association, 688, Benna Govindappa Lane, Chickpet, Bangalore 56002A.

Hides & Skins Merchants' & Tanners Association, Mysore State, 120, Commercial St., Bangalore 560001.

Hosiery Sahakari Utpadak Sangh Ltd., Karnatak, Shahapur, Belgaum 590001.

Hotels' Association, All Mysore, Shivji Bldg., Mysore Rd., Bangalore 560002.

Industries Association, Dandeli, Dandeli.

Meter Manufacturers' Association of India, Post Bag 6, Bangalore 560026.

Oodabathi Manufacturers' Association, Mysore, Mysore Chamber of Commerce Bldg., Kempegowda Rd., Bangalore 560009.

Piecegoods Merchants' Association, Bangalore, Wholesale, Rukmini Bldg., Chickpet, Bangalore 560002A.

Publishers & Booksellers' Assocn., Mysore State, C/o Bhushan & Co., Basavangudi, Bangalore 560004.

Radio Merchants' Association, Mysore State, 2-F, Mahatma Gandhi Rd., Bangalore 560001.

Readymade Garments and Hosiery Manufacturers Association, Mysore State, C/o Lalitha Dress Mfg. Co., 64, S. J. Park Rd., Bangalore 560002.

Road Transport Association, Mysore State, B. G. S. Rajan Mansions, II Main Rd., Kalasipalyam New Extn., Bangalore 560002.

Silk Association, Mysore, Asiatic Bldgs., Gandhinagar, Bangalore 560009.

Silk Cloth Merchants' Association, Mysore, Shivakripa Bldg., Chowdeswari Temple St., Bangalore 560002.

Silk Manufacturers (Powerlooms) Association, Mysore, 39, Jumma Masjid Rd., Bangalore 560002.

Silk Merchants' Association, Mysore Raw, Resham Mahal, Kempegowda Extn., Bangalore 560009.

Silk Throwing Factories Association, Mysore, S. S. K. Bldgs., Kasi Visweswara Temple St., Bangalore 560002.

Small-Scale Industries Association, All Mysore, Visvesvaraya Trade Centre, Kasturba Rd., Bangalore 560001.

Sugar Mills Association, S. Indian, Mysugar Bldgs., Sri Jayachamaraja Wadiyar Rd., Bangalore 560002.

Textile Association (India) (Regd.), Mysore Branch, C/o S. K. S. J. Technological Institute, Bangalore 560001.

Tract and Book Society, Bangalore, 16, St. Mark's Rd., Bangalore 560001.

Trades Association, Bangalore, 53, M. Gandhi Rd., Bangalore 560001.

Trades Association, Davangere, Mandipet, Davangere.

Tyre Dealers' Syndicate, Ramakrishna Bldg, Narasimharaja Rd., Bangalore 560002.

Vyapari Sangh, Belgaum, 691, Raviwarpeth, Belgaum 590001.

Wine Merchants' Association, Bangalore, 111, Brigade Rd., Bangalore 560001.

CULTURAL, SOCIAL AND PROFESSIONAL

Bible Society of India and Ceylon, 20, M. Gandhi Rd., Bangalore 560001.

Cricket in India, Board of Control for, No. 34, 16th Cross Rd., Malleswaram, Bangalore 560003.

Dental Association, All India, Dental College, Fort, Bangalore 560002.

Engineers (India), Institution of, 3, Vidhana Veedhi, Bangalore 560001.

Family Planning Association, 50, Cavalry Rd., Bangalore 560001.

Fine Arts, Sri Varalakshmi Academies of, Ram Vilas, Kashipathy Agrahar, Chamaraja Rd., Mysore 570004.

Hockey Federation, Indian, 37, Infantry Rd., Bangalore 560001.

Horticultural Society, Mysore, Lalbagh, Bangalore 560027.

Indo-Soviet Cultural Society, 28, 1st Main V Block, Kumara Park W. Extension, Bangalore 560020.

Industrial and Technological Museum, Visvesvaraya, Kasturba Rd., Bangalore 560001.

Leprosarium, Central, Magadi Rd., Bangalore 560002.

Medical Association, Mysore, Victoria Hospital Compound, Bangalore 560002.

Medical Representatives' Association, Bangalore, Srinivasa Bldg., Link Rd., Malleswaram, Bangalore 560003.

Medical Representatives' Association, Mysore City, 53, Dhanvantari Rd., Mysore 570001.

Meera Welfare Society, 15, Cambridge Rd., Bangalore 560006.

Photography, Federation of Indian, 50, Sri Ram Mandir Rd., Bangalore 560004.

Ramaseva Mandali, Shree, 189, 4th Main Rd., Chamarajpet, Bangalore 560002.

Red Cross Society, Indian, 51, IIIrd Cross Rd., Basavangudi, Bangalore 560004.

Sahitya Parishad, Kannada, Hardinge Rd., Chamarajpet, Bangalore 560018.

Sangeetha Nataka Academy, Mysore State, Ravindra Kalakshetra, Bangalore 560002.

Sciences, Indian Academy of, Hebbal P.O, Bangalore 560006.

Seva Sadan, 14th Cross Central, Malleswaram, Bangalore 560003.

Silk Handloom Weavers' Central Co-operative Society Ltd., Mysore State, 74, Jogupalayam, Bangalore 560008.

Small-Scale Industries Co-operative Society Ltd., Mysore, Prasad Mansion, Main Rd., Bangalore 560009.

Telecommunication Engineers, Institution of, 36, II Main Vyali-Kaval, Bangalore 560003.

Vanita Seva Samaj, Puranik Rd., Dharwar 580001.

Vidyarthi Sahaya Sangha (Regd.), Jayanivas, 74, 1st Cross Lane, Sampangiramanagar, Bangalore 560027.

EDUCATIONAL AND RESEARCH

Adult Education Council, Mysore State, Idigara Hostel Bldg., Seshadri Puram, Bangalore 560020.

Advancement of Management, Indian Chapter of Society for, 1503 IV T, Jayanagar, Bangalore 560020.

Ayurved Vidyapeeth Society, Karnatak, Khasbag, Belgaum 590001.

Biological Control, Commonwealth Institute of, P. Box 1403, Bangalore 560009.

Bowring Institute, 19, St. Mark's Rd., Bangalore 560001.

Commerce Alumni Foundation, 9-28, 1st Main, V Block, Kumara Park West, Bangalore 560020.

English, Regional Institute of, South India, 6A, Cunningham Rd., Bangalore 560013.

Food Craft Institute, S. J. Polytechnic Bldgs., Bangalore 560001.

Jointly sponsored by the Govt. of India and the Govt. of Mysore to train men and women for Catering Industry, and provide better, more nutritive and wholesome meals on a large scale in industrial canteen, hospitals and other catering establishments. The training also emphasises the need to change the food habits of people in view of acute shortage of food and ever increasing population problem.

Principal : Charles A. Wesley.

Historical Research Society, Karnatak, College Rd., Dharwar 580001.

Leprosy Relief and Research Institute of Ayurveda, Arunodaya, Kengeri Post, Bangalore South.

Machine Tool Institute, Central, Tumkur Rd., Bangalore 560022.

A Research and Development Organisation for metal cutting machine tools.

Director : R. K. Gejji.

Mental Health, All India Institute of, P. Bag No. 2779, Bangalore 560027.

Oriental Research Institute, Mysore 570001.

Plywood Industries Research Institute, Indian, Tumkur Rd., Bangalore 560022.

Director : Dr. Joseph George.

Printing and Graphic Arts, Indian Academy of, 27A, 37A Cross, 8th Block, Jayanagar, Bangalore 560041.

Public Affairs, Gokhale Institute of, Narasimharaja Colony, Basavangudi, Bangalore 560004.

Raman Research Institute, Hebbal P. O., Bangalore 560006.

Science, Indian Institute of, Bangalore 560012.

The Institute has the status of a University.

President of the Court : J. R. D. Tata, *Chairman of the Council :* R. Choksi, *Director :* Satish Dhawan, *Registrar :* S. S. Prabhu.

Secretaries, Institute of Corporate, 9, 1st Main V Block, Kumara Park Extn., Bangalore 560020.

Serum Institute, Mysore, Hebbal, Bangalore 560006.

Social Sciences, National Institute of, 40, Wellington St., Richmond Town, Bangalore 560025.

Speech and Hearing, All India Institute of, Manasagangothri, Mysore 570006.

Director-in-Charge : Dr. N. Rathna.

Technical & Vocational Schools, Association of Private, St. Mary's Town, Bangalore 560005.

Technological Institute, Shri Krishnarajendra Silver Jubilee, Krishnarajendra Circle, Bangalore 560001.

Tuberculosis Institute of India, National, Avalon, Bellary Road, Bangalore 560003.

Director : Dr. D. R. Nagpaul.

World Culture, Indian Institute of, 6, B. P. Wadia Rd., Basavangudi, Bangalore 560004.

ORISSA

COMMERCIAL

Chemists & Druggists Association, Balangir 767001.

Salt Manufacturers' Association, Orissa, Cuttack 753002.

Small Scale Industries Association, Orissa, Chauliaganj, Cuttack 753003.

CULTURAL, SOCIAL AND PROFESSIONAL

Cultural Academy, A/1, Sector-3, Rourkela 2.

Kala Vikash Kendra, K. V. K. Rd., Cuttack 753001.

Kalinga Culture, Muhammadia Bazar, Cuttack 753002.

Marketing Society Limited, Orissa State Co-operative, Station Rd., Bhubaneswar 751001.

Medical Representatives Association, Orissa, Makarbasahi, Cuttack 753001.

Sahitya Akademi, P.O. Box 56, Bhubaneswar 751001.

Tribal Development Co-op. Society Ltd., Orissa State, Plot No. 14/F, Lewis Rd., Bhubaneswar 751002.

EDUCATIONAL AND RESEARCH

Regional Research Laboratory, Bhubaneswar 751001.

PUNJAB

COMMERCIAL

Co-operative Supply and Marketing Federation Ltd., P. Box No. 67, Chandigarh 160017.

Cycle & Parts Manufacturers' Asssociation, United, Miller Ganj, Gill Rd., Ludhiana 141003.

Cycle Parts Manufacturers' Association, East Punjab, Gill Rd., Ludhiana 141003.

Cycle Parts Suppliers' Association, Ludhiana, Miller Ganj, Ludhiana 141003.

Factories Association, Railway Rd., Batala.

Hosiery Industry Federation of India, Sat Sang Ghar Rd., Civil Lines, Ludhiana 141003.

Hosiery Machine Manufacturers' Association, 461/62, Industrial Area B, Miller Ganj, Ludhiana 141003.

Hosiery Manufacturers' Association, Thapar Bldg., Bazar Kharadian, Ludhiana 141003.

Hosiery Manufacturers Export Organisation, Mai Harkishan Kaur Sarai, Civil Lines, Ludhiana 141003.

Hosiery Manufacturers' Union, Home, Chawal Bazar, Ludhiana 141003.

Industry and Commerce, Punjab Federation of, Inside Hall Gate, Amritsar 143001.

Industries Association, Kapurthala, Factory Area, Kapurthala 144601.

Machine Tools Makers Guild, Ludhiana, Link Rd., Dhobwal Chowk, Ludhiana 141003.

Motor Parts Traders Association, Punjab, Nehru Garden Rd., Jullundur 144001.

Paper Merchants' Association, Punjab, Guru Bazar, Amritsar 143001.

Radio Trade Federation, Punjab, Railway Rd., Jullundur 144001.

Textile Manufacturers' Association, 4, Diwan C. Mehra Rd., Amritsar 143001.

CULTURAL, SOCIAL AND PROFESSIONAL

Engineering Association of India, (Punjab Regional Office) Tanda Rd , Jullundur 144001.

Engineering Association of Northern India, G. T. Rd., Batala, Dist. Gurdaspur.

Handloom Associations, Federation of, Katra Ahluwalia, Amritsar 143001.

Handloom Shoddy Weavers & Processors Association Ltd., Bazar Bikanerian, Katra Ahluwalia, Amritsar 143001.

Shiromani Gurudwara Parbandak Committee, Teja Singh Samudri Hall, Amritsar 143001.

EDUCATIONAL AND RESEARCH

Advanced Study, Indian Institute of, Rashtrapati Niwas, Simla 171005.

Engineering, National Institute of, Hoshiarpur.

Sports, National Institute of, Motibagh, Patiala 147001.

Director : R. L. Anand.

Vedic Research Institute, Vishveshvaranand, Sadhu Ashram, Hoshiarpur 146001.

RAJASTHAN

COMMERCIAL

Automobile Dealers Association, Rajasthan, C/o Lakshmi Motor Co., Mirza Ismail Rd., Jaipur 302001.

Cycle Manufacturers' Association, Rajasthan, Behind Atish, Gangori Bazar, Jaipur 302001.

Employers Association of Rajasthan, Podarpuri, Jaipur 302006.

Industrial Estate Association, Jaipur, Industrial Estate, Jaipur 302006.

Industries Association, Bikaner District, Binani Bldgs., Alak Sagarwell, Bikaner 334001.

Industries Association, Jodhpur, Behind Power House, Jodhpur 342001.

Plastic Industries Association, Nimaj House, Jodhpur 342001.

Small Industries and Handicrafts Association, Ajmer District, Kaxhari Rd., Ajmer 305001.

Small Industries of Rajasthan, Federation of Associations of, Near Shah Sawai Mansingh Highway, Jaipur 302001.

Textile Mills Association, Rajasthan, Durlabh Bhawan, Mirza Ismail Road, Jaipur 302001.

Vyapar Mandal, Bikaner, K.E.M. Road, Bikaner 334001.

Wool Trade Federation, All India, Beawar.

Yarn Merchants Association, Jaipur, D-23, Saraswathi Marg, Beni Park, Jaipur 302001.

CULTURAL AND SOCIAL

Lalit Kala Akademi, Rajasthan, 260-D, Bani Park, Jaipur 302001.

Sangeet Natak Academy, Rajasthan, Paota A-1 Rd., Jodhpur 342001.

EDUCATIONAL AND RESEARCH

Sciences, Rajasthan Academy of, Birla College, Pilani.

Sheep & Wool Research Institute, Central, Avika Nagar (Dist. Jaipur).

Vidyapith, Banasthali, P.O. Banasthali Vidyapith.

All India residential institution imparting all-round education to girls from nursery to post-graduate and research stage with faculties of Arts, Science & Education.

Vidyapith, Saraswati, Tipta, Kota 324001.

TAMIL NADU

COMMERCIAL

Aerated Water Requisites Merchants' Association, Madras, No. 296, Wall Tax Rd., Madras 600003.

Aluminium Merchants' and Manufacturers' Association, Madras, 10/11, Peddu Naicken St., Madras 600003.

Automobile Association of Southern India, 38-A, Mount Road, Madras 600006.

Booksellers' and Publishers' Association of South India, C/o Higginbothams Pvt. Ltd., 165, Mount Rd., Madras 600002.

Brick and Tile Manufacturers' Association, 9, Jayammal St., Shenoy Nagar, Madras 600030.

Builders' Association of India, 53, Sir Mohamed Usman Rd., T. Nagar, Madras 600017.

Butter and Ghee Merchants' Association (Regd.), Madras, 137, Audiappa Naick St., Madras 600001.

Carbon-dioxide Manufacturers' Association of S. India, Dare House, North Beach, Madras 1.

Cardamom Traders Chamber, Bodinayakanur, Dt. Madurai.

Cement Service Bureau, 'The Grove', Alwarpet, Madras 600018.

Chemists & Druggists' Association, East Ramnad, 8-9, Thiagigal Rd., Devakottai.

Chillies Merchants' Association, Madras, 18, Chinnathambimudali Street, Madras 600001.

Coffee Merchants' Association, All India, 22/48, 49, Raja St., Coimbatore 641001.

Corrugated Box Mfrs. Association, Southern India, Super A12/13, Industrial Estate, Guindy, Madras 600032.

Cotton Seed Merchants' Association, Tamil Nadu, 95, Thadicombu Rd., Dindigul 624001.

Cotton Waste Merchants' and Exporters Association, Southern India, 5, Vysial St., Coimbatore 641001.

Cycle Importers Association, Madras, 73, Broadway, Madras 600001.

Dyes and Chemicals Merchants' Association, Madras, 209, Govindappa Naick St., Madras 600001.

Electric Traders Association, 221, Avanashi Rd., Coimbatore 641018.

Electric Traders Association, Madras, 26, Tholasingham St., Madras 600001.

Employers' Federation of Southern India, Dare House Annexe, Moore St., Madras 1.

Chairman : M. M. Muthiah ; *Vice-Chairman :* K. V. Srinivasan ; *Secretary :* C. S. Krishnaswami.

Engineering Manufacturers' Association, Southern India, Kalaikathir Bldg., Avanashi Rd., Coimbatore 641018.

Exporters and Importers Association, Nagai, 6, Second Line Beach, Nagapattinam 611001.

Fireworks Manufacturers' Association, Small Scale Cottage, Door No. 7-3/5, Seeni Moopnagar St., Sivakasi.

Foodgrains Merchants' Association Ltd., Tamil Nadu, 7, Swami Sannadhi Lane, Madurai 625001.

Glass Manufacturers' Association, South India, C/o South India Glass and Enamel Works Ltd., Cherry Rd., Salem 636007.

Gunny Merchants' Association, Madras, 35-A, Audiappa Naicker St., Madras 600001.

Handloom Cloth Manufacturers' Association, Salem Gugai, 277, Trichy Main Rd., Salem 636006.

Handloom Industry and Trade Association, Madras State, 72, Thambu Chetty St., Madras 600001.

Handloom Towels and Bedsheets Manufacturers' Association, Tamil Nadu Federation of, Erode 638001.

Handloom Weavers' Co-operative Society Ltd., Tamil Nadu, 34/1A, Pantheon Rd., Madras 600008.

Hardware and Paint Merchants' Association, Madras, 45, Venkatachala Mudali St., Madras 600003.

Hosiery Manufacturers' Association, South India, 78/2, Kumaran Rd., Tirupur 638601.

Hotels Association, Madras, 289, N. S. C. Bose Rd., Madras 600001.

Hotels and Restaurants Association, South India, Spencer's Bldg., 153, Mount Rd., Madras 600002.

Industrial Estate Manufacturers' Association, Ind. Estate, Guindy, Madras 600032.

Industrial Estate Association, Ambattur, Industrial Estate, Ambattur, Madras 600058.

Insurance Association of India, Madras Regional Council, 32, Jones St., Madras 600001.

Iron and Hardware Merchants' Association, South India, 6, Armenian St., Madras 600001.

Jewellers' and Diamond Merchants' Association, Madras, 11 & 12, Car St., Madras 600001.

Kirana Merchants' Association, Madras, 210, Govinappa Naick St., Madras 600001.

Manufacturers' Association, All India, (Tamil Nadu Board) 150-B, Mount Rd., Madras 600020.

Marketing Federation Ltd., Tamil Nadu Co-operative, 89, Poonamallee High Rd., Madras 10.

Match Industries, Sivakasi Chamber of, 7-1-36, Sivan Sannathi St., Sivakasi.

Metal Distributors' Association, Southern India, 127, Mint St., Madras 600001.

Millowners' Association, Southern India, Race Course, Coimbatore 641018.

Millowners' Association, Tamilnad, Madurai 625001.

Minerals Association, South India, 52/53, Jehangir St., Madras 600001.

Motion Picture Studios Association, South India, 122, Woods Rd., Madras 600002.

Motor Parts Dealers' Association, Madras, 22, General Patters Rd., Madras 600002.

Motor Parts Dealers Association, Tamil Nadu, 66, Naicker New St., Madurai 625001.

Motor Vehicles and Allied Industries Association, 22, Edward Elliot's Rd., Madras 600004.

Oil and Seeds Association, Madras, 320/9, Francis Joseph St., Madras 600004.

Paper Merchants' Association, Coimbatore Dt., C/o Viswanath Trading Co., Raja St., Coimbatore 641001.

Paper Merchants' Association, Madras, 2, Anderson Street, Madras 600001.

Paper Merchants' Association, Tamilnad, 43/44, East Avani Moola St., Madurai 625001.

Photographic and Allied Trades Association Ltd., South India, 1/129, Mount Rd., Madras 600002.

Piecegoods Merchants' Association, Madras, 100, Godown St., Madras 600001.

Pinto and Rotary Oil Mill Owners Association, Madras, 3A/1, Poes Gardens, Madras 600018.

Planters Association of Southern India, United, P.O. Box No. 11, "Glenview", Coonoor, Nilgiris.

President : N. H. Sethna ; *Vice-President :* A. D. Peacock; *Secretary and Adviser :* V. I. Chacko.

Plastics Association, South India, 1-A, Balamuthu Krishna Iyer St., Madras 600017.

Printers' Association, Tamilnad, 18-A, Jadamuni Kovil East Second St., Madurai 625001.

Publishers' Association of South India, 3, Kondichetty Street, Madras 600001.

Radio & Electronics Association, All India, 22, General Patters Rd., Madras 600002.

Radio Dealers Association, Coimbatore District, C/o Associated Electronics, 59, Oppanakara St., Coimbatore 641001.

Radio Dealers' Association, Philips, C/o Rajeswari Electricals, 10, Pondy Bazar, T. Nagar, Madras 600017.

Refrigeration and Air Conditioning Trades Association, 23/24, Second Line Beach, Madras 600001.

Roller Flour Mills Association Ltd., Southern India, Indian Chambers Bldgs., Esplanade, Madras 600001.

Sago and Starch Merchants' Association, Salem, 24, Ayyasamy Chettiar Rd., Shevapet, Salem 636002.

Salt Manufacturers and Merchants' Association, 150, Victoria St., Tuticorin 628001.

Skin and Hide Merchants' Association, Southern India, 16, Sydenham's Rd., Periamet, Madras 600003.

Small Scale Industries Association, Kanyakumari, C/o Favourite Food Products, 25/269, Ramavarmapuram, Nagercoil 629001.

Small Industries Management Association, 23, Nungambakkam High Rd., Madras 600034.

Small Scale Industries Association, Tamil Nadu, Saleh Mansion, 1, Tuckers Lane, Broadway, Madras 600001.

Stock Exchange Ltd., Madras, 16/17, Second Line Beach, Madras 600001.

President : J. V. Somayajulu ; *Vice-President :* M. S. Sivasubramanian ; *Exec. Director :* E. R. Krishnamurti.

Tanners and Dealers Association, South India, Ranipet, North Arcot District.

Textile Association (India), South India Branch, C/o The Coimbatore Cotton Mills Limited, Singanallur, Coimbatore 641005.

Textiles Association, Tamil Nadu, 2, First Gandhipuram, Erode 3.

Textiles Manufacturers' and Exporters' Society, Handloom, Salem Main Rd., Komarapalayam, Salem District.

Trades Association, Madras, Spencer's Bldgs., Mount Rd., Madras 600003.

Tyre Dealers' Association, Madras City, 19A, Woods Rd., Madras 600003.

Varthagar Kazhagam, Tamilnad, 70, Chetty New St., Kumbakonam 612001.

Weaving & Knitting Factory Owners' Association Ltd., Karur, New St., Karur 639001.

Window Glass Merchants' Association, Madras, 92/96, Devaraja Mudali St., Madras 600003.

Yarn Merchants' Association Ltd., Madurai, 134, South Masi St., Madurai 625001.

Yarn Trade Federation, South India, 38, Mint St., Madras 600003.

CULTURAL, SOCIAL AND PROFESSIONAL

Agri-Horticultural Society of Madras, 18, Cathedral Rd., Madras 600006.

Anglo-Indian Association, All India, 7, Maricar Naicker St., Madras 600007.

Animal Welfare Board, 1, First Main Rd., Gandhinagar, Madras 600020.

Bharat Scouts and Guides, "Wenlock Park", South Beach Rd., Triplicane, Madras 600005.

Bible Society of India and Ceylon, (Madras Auxiliary) Memorial Hall Compound, Madras 600003.

Botanical Society, Indian, Univ. Botany Laboratory, Madras 600005.

Carrom Federation, All India, Nehru Stadium, P. T., Madras 600003.

Catholic Centre, Armenian St., Madras 600001.

Chartered Accountants of India, Institute of, 23, Nungambakkam High Rd., Madras 600034.

Chess Federation, All India, 317, Thambu Chetty St., Madras 600001.

Child Education, Indian Council for, 1, Prakasa Mudaliar Rd., Madras 600004.

Child Welfare, Madras City Council for, 81, Suryanarayana Chetty St., Royapuram, Madras 600013.

Children, Madras Society for the Protection of, 465, T.H. Rd., Washermanpet, Madras 600021.

Christian Literature Society, Park Town, Madras 600003.

Cine Technicians' Association of South India, 15, Arulammal St., T. Nagar, Madras 600017.

Connemara Public Library, Pantheon Rd., Egmore, Madras 600008.

Cricket Association, Tamil Nadu, Chepauk Stadium, Chepauk, Madras 600005.

Cruelty to Animals, Society for the Prevention of, Vepery High Rd., Vepery, Madras 600007.

Daivajna Samaj, 44, Purasawalkam High Rd., Madras 600007.

Deaf, Madras Association of the, School for the Deafs, P. O. Cathedral, Madras 600006.

Divine Science Trust, No. 26, K. K. Rd., Ambattur, Madras 600053.

Engineering Association, Indian, Dare House, 2nd Line Beach, Madras 600001.

Engineers (India), Institution of, 1, Adam's Rd., Chepauk, Madras 600005.

Ex-servicemen Industrial Co-op. Society Ltd., Anna Electromech, 34-C, Katpadi Rd., Vellore 632001.

Ex-Services League, North Arcot, 26-1-E, Periathanam Subbaraya Mudali St., Vellapadi, Vellore 632001.

Free Enterprise, Forum of, 35, Mount Rd., Madras 600002.

Friend-in-Need Society, Finsbree Garden, 19/20, Poonamallee High Rd., Madras 600003.

Geethalaya, 1, First Cenotaph St., Madras 600018.

Gokulam Method Village Welfare Association, 11-B, Eldams Rd., Teynampet, Madras 600018.

Hindi Prachar Sabha, Dakshina Bharat (Tamilnad), Tiruchi 620017.

Hockey Federation, Indian, Nehru Stadium, Madras 600003.

International Art Centre, Kalakshetra, Tiruvanniyur, Madras 600041.

Centre for education in classical music, dancing, theatrical art, painting and handicrafts.
President : Srimati Rukmini Devi.

Kainkarya Samaj, Sri Sorakaya Swami, 5, Sectt. Colony, Ambattur, Madras 600053.

Kali Bari, Madras, 19-A, Woods Rd., Madras 600002.

Library Association, Madras, C/o Maraimalai Adigal Library, 105, Linghi Chetty St., Madras 600001.

Literary Society, Madras, College Rd., Madras 600006.

Maha Bodhi Social Service Society, Madras, 10, Kennet Lane, Egmore, Madras 600008.

Marine Biological Association of India, Mandapam Camp (Editorial Office : 10, South St., Madras 600028).

Medical Representatives Association, Tamil Nadu, 163-Y, Royapettah High Rd., Madras 600014.

Music Academy, 115-E, Mowbray's Rd., Madras 600014.

Mylapore Academy, 19, Nallappan St., Mylapore, Madras 600004.

Om Vighneswara Cultural Academy, 21, Dr. Rangachari Rd., Mylapore, Madras 600004.

Painters, South Indian Society of, No. 13, 111, Trust Cross, Madras 600028.

Performing Rights Society, 132, Coral Merchant St., Madras 600001.

Philatelic Academy, Rangpar, 27, Dewan Rama Iyengar Rd., Vepery, Madras 600007.

Productivity Council, Madras, 23, Nungumbakkam High Rd., Madras 600034.

Purandharadas Aradhana Mahotsava Sabha, Sri, Srirangam, Tiruchirapalli 620006.

Ramakrishna Math, Sri, (Publication Dept.) 11, Sri Ramakrishna Math Rd., Mylapore, Madras 600004.

Rasika Ranjani Sabha, Sundareswar St., Mylapore, Madras 600004.

Red Cross Society, Indian, Tamil Nadu Branch, Red Cross Bldg., Montieth Rd., Egmore, Madras 600008.

Rural Health and Family Planning, Gandhigram Institute of, P. O. Gandhigram (Dist. Madurai).

Sangita Nataka Sangam, Tamil Nadu, 'Brodie Castle,' Greenways Rd., Madras 600028.

Sanskrit Academy, Sanskrit College Bldgs., Mylapore, Madras 600004.

Servants of India Society, 8, Westcott Rd., Royapettah, Madras 600014.

Seva Sadan, Madras, No. 5, Harrington Rd., Chetput, Madras 600031.

Social Work, Madras School of, Casamajor Rd., Egmore, Madras 600008.

Sunday School Union, India, Coonoor.

Tamil Culture, Academy of, Madras 600007.

Tamil Sangam, Madurai, Tamil Sangam Rd., Madurai 625001.

Vivaha Nala Sangam, 2713, North Raja St., Pudukkottai 622001.

Welfare Association, West Madras, 25, Club Rd., Shenoy Nagar, Madras 600030.

EDUCATIONAL AND RESEARCH

Adult Deaf, Training Centre, 37, San Thome High Rd., Madras 600028.

Adult Education, Regional Council for, 274, Linghi Chetty St., Madras 600001.

Advancement of Management, Indian Chapter of Society for, 86, Secretariat Colony, Madras 600010.

Automobile Engineering and Business Management, Institute of, 85, Mount Rd., Madras 600018.

Automotive Engineers, Institution of, 85, Mount Rd., Madras 600018.

Business Management (India), Institute of, 85, Mount Rd., Madras 600018.

Catering Technology and Applied Nutrition, Institute of, Adyar, Madras 600020.

Educational Association of Southern India, Muslim, 49, Peters Rd., Royapettah, Madras 600014.

Educational Foundation in India, U.S., American Consulate-General, Mount Rd., Madras 600006.

Engineering Training Centre, Hindustan, 40, North Parade Rd., Madras 600016.

Financial Management and Research, Institute for, 3, Kothari Rd., Nungumbakkam, Madras 600034.

Footwear Training Centre, Central, A1 to A4, Ind. Estate, Guindy, Madras 600032.

General Practice, Institute of, Madras, V. H. S. Medical Centre, Madras 600020.

Home Science College, Sri Avinasilingam, Coimbatore 641011.

Homoeopaths, Indian Institute of, 30, Bakthapuri St., Kumbakonam 612001; 6, Stringers St., Madras 600001; 4, Manjanakara St., Madurai 625001 and Arunachala Asari St., Salem 636001.

Human Relationship, Gandhi Lincoln Institute of, Gandhigram (Dist. Madurai).

Leather Technology, Institute of, Madras 600020.

Leprosy Teaching and Research Institute, Central, Chingleput 603001.

Library and Research Centre, Adyar, Adyar, Madras 600020.

Management Institute for Training & Research in Asia, 6-A, Malaviya Avenue, Madras 600041.

Motor Industry (India), Institute of, 85, Mount Rd., Madras 600018.

Pasteur Institute of Southern India, Coonoor 3, Dist. Nilgiris.

Plastics, Engineering and Tools, Central Institute of, Guindy, Madras 600032.

Training, consultancy and development set up to assist Plastics Processing industries by training their staff in Mould Design, Mould Making, Mould Polishing, Plastics processing and Inspection of Moulds and Mouldings.

P. S. G. & Sons Charity Industrial Institute, Peelamedu Post, Coimbatore 641004.

Ramakrishna Mission Vidyalaya, Sri, Sri Ramakrishna Mission Vidyalaya P.O., Dist. Coimbatore.

Soil Conservation Research Demonstration and Training Centre, Patna House, Ootacamund 643001.

Tamil Development and Research Council, Directorate of Tamil Development, Madras 600001.

Technical Training Foundation, Nettur, Govt. Industrial Colony, Katpadi.

Technology, Indian Institute of, Madras 600036.

Technology, Madras Institute of, P.O., Chromepet Chingleput Dist.

Textile Research Association, South India, Coimbatore 641014.

Tuberculosis Institute, Government, Spur Tank Rd., Chetput, Madras 600031.

UTTAR PRADESH

COMMERCIAL

Automobile Association, U.P., 32-A, M. G. Marg, Allahabad 211001.

Automobile Dealers Association, Kanpur, Auto Centre, Chunniganj, Kanpur 208001.

Barbed Wire Manufacturers' Association, U.P., 58/4, Birhana Rd., Kanpur 208001.

Biscuit Manufacturers' Association, U.P., 84/67, G.T. Rd., Kanpur 208001.

Carpet Manufacturers' Association, All India, Post Box No. 63, Bhadohi.

Dairy Federation Ltd., Pradesh Co-op., 29, Park Road, Lucknow 226001.

Employers' Association of Northern India, 14-77, Civil Lines Kanpur 208001.

Engineering Association of Northern India, 79/7, Latouche Rd., Kanpur 208001.

Gur and Khandsari Association, U.P., Alamgiriganj, Bareilly 243001.

Hide Merchants' Association, Farrashkhana, Kanpur 208001.

Industrial Estate Manufacturers' Association, U.P., 5, Ind. Estate, Kanpur 208001.

Lock Manufacturers' and Traders Association, Aligarh, Aligarh 202001.

Motor Industries Association, U.P., Allied Motors P. Ltd., Hazratganj, Lucknow 226001.

Publishers' Association, Uttar Pradesh, 21, Sheo Charan Lal Rd., Allahabad 211001.

Roller Flour Millers' Association, U.P., 47/10, Kabir Marg, Lucknow 226001.

Scientific Dealers' and Makers Association, U.P., C/o Superior Scientific Stores, 107/221, Jawahar Marg, Kanpur 208001.

Shoe Manufacturers' Association, Agra, 1244, Pili Kothi, Shahganj, Agra 282001.

Small Industries Association, 1406, Court Rd., Saharanpur 247001.

Small Scale Industries Association, U.P., 106/377, 'P' Rd., Kanpur 208001.

Small-Scale Manufacturers' Association, Loni, Rural Ind. Estate, Loni (Dist. Meerut).

Sugar Exchange Limited, Upper India, 51/58, Collectorganj, Kanpur 208001.

Tanners' Federation of India, 14/69, Civil Lines, Kanpur 208001.

Textile Association, India, (U.P. Branch) 14/1, Civil Lines, Kanpur 208001.

Vyapari Sangh, 65, Subhas Bazar, Meerut 250001.

CULTURAL, SOCIAL AND PROFESSIONAL

Academy of Banaras, American, Rewa Palace, B2/3, Rewa Ghat, Varanasi 221001.

Archaeological Museum, Dampier Park, Mathura 281001.

Ceramic Society, Indian, Banaras Hindu Univ., Varanasi 221005.

Cheshire Homes India, 16, Pritam Rd., Dehra Dun 248001.

Chairman : Maj.-Gen. Virendra Singh ; *Mg. Trustee :* J. A. K. Martyn ; *Hon. Treasurer :* P. S. Maller.

Homes: Bangalore, Vadodara, Bombay, Burnpur, Calcutta, Coimbatore, Delhi, Dehra Dun, Jamshedpur, Katpadi, Madras, Mangalore, Poona, Ranchi and Madurai.

Christian Literature Society, North India, 18, Clive Rd., Allahabad 211001.

Crime Prevention Society, All India, Behari Niwas, Kanpur and Balaganj, Lucknow 226001.

'Dharma Peetha' Board of Kashi, D35/87, Jangombari, Varanasi 221001.

Divine Life Society, The, P.O. Sivanandanagar, Dt. Tehri-Garhwal 249001.

Family Welfare Association of India, Roorkee.

Gandhi Nari Kalyan Samiti, Dhampur, Dt. Bijnor.

Kala Bhavan, Bharat, (Museum of Indian Art and Archaeology), Banaras Hindu Univ., Varanasi 221001.

Kashiraj Trust, All India, Fort Ramnagar, Varanasi 221001.

Objects : Among others, advancement and propagation of the Sanskrit language, Sanskritic learning and Indology.

Kusht Nivaran Sangh, Hind, (U.P. Branch), C/o Director of Medical and Health Services, U.P., Lucknow 226001.

Mahila Ashram, (Home for Women in distress run by Municipal Corpn.), Motinagar, Lucknow 226001.

Medical Representatives Association, U.P., Maya Bazar, Gorakhpur 273001.

Nature Cure Association, All India, 52, Gwynne Rd., Lucknow 226001.

Nehru International Youth Club, 5A-Khadri Mohalla, Dehra Dun 248001.

Numismatic Society of India, P.O. Banaras Hindu Univ., Varanasi 221005.

Oil Technologists' Association of India, Ganesh Flour Mills Co. Ltd., Kalpi Rd., Kanpur 208001.

Prajapati Sabha, Akhil Bhartiya, Manohar Pura, Mathura 281001.

Productivity Council, Agra, G. G. Industries P.O. Agra 282001.

Ramakrishna Mission Sevashram, Vivekananda Puri, Lucknow 226007.

Scouts and Guides, Bharat, Uttar Pradesh, 17, Katra Rd., Allahabad 211001.

Seva Samiti, All India, Seva Samiti Bldgs., Seva Samiti Rd., Allahabad 211003.

Sugar Technologists' Association of India, Kalyanpur, Kanpur 208001.

Tuberculosis Association, Uttar Pradesh, 1, A. P. Sen Rd., Lucknow 226001.

United Nations Association, Rose Bldg., Subash Rd., Aligarh 202001.

Vishwa Vidya Pratishthan, 25/19, Karachi Khana, Kanpur 208001.

Vriddha Jan Samman Samiti, Agra 282004.

EDUCATIONAL AND RESEARCH

Cottage Industries Development Institute, Tilpurwa, Hussainganj, Lucknow 226001.

Earthquake Technology, India Society of, Roorkee.

Educational Associations, All India Federation of, Jha-Seshadri-Khattry Bhawan, Kanpur 208001.

Educational Society, Sharanjit, Omkar Rd., Dehra Dun 248001.

Forest Academy, Yoga Vedanta, The Divine Life Society, P.O. Sivanandanagar, Dt. Tehri Garhwal.

Kashi Vidyapith, Varanasi 221001.

Medical Research, Nature Cure Council of, 52-57, Gwynne Rd., Lucknow 226001.

Metals, Indian Institute of, Roorkee.

Opthalmology, Institute of, Gandhi Eye Hospital, Aligarh 202001.

Oriental Philosophy, Institute of, Vrindaban, Dt. Mathura.

Palaeobotany, Birbal Sahni Institute of, 53, Univ. Rd., Lucknow 226001.

Petroleum, Indian Institute of, P. O. 11P, Dehra Dun 248001.

Director : Dr. M. G. Krishna ; *Administrative Officer :* G. Prakash ; *Projects Division :* 19, Ring Road, Lajpatnagar IV, New Delhi 110024.

Photo-Interpretation Institute, Indian, 113, Rajpur Rd., Dehra Dun 248001.

Psychological Services & Research, Institute of, 9/63, Aryanagar, Kanpur 208001.

Research Institute, Ganganatha Jha, Motilal Nehru Park, Allahabad 211001.

Sanskrit Vishwa Vidyalaya, Varanaseya, Varanasi 221001.

Teaching-cum-affiliating. Has the richest collection of Sanskrit Manuscripts.

Sciences, National Academy of, India, 5, Lajpat Rai Rd., Allahabad 211002.

President : Dr. S. H. Zahar ; *Gen. Secretaries :* Prof. U. S. Srivatsava & Prof. R. Kushwatra.

Soil Science, Sheila Dhar Institute of, Univ. of Allahabad, Allahabad 211001.

Structural Engineering Research Centre, Roorkee.

Technological Institute, H. B., Company Gardens, Kanpur 208001.

Vijnana Parishad, Thornhill Rd., Muir College Bldgs., Allahabad 211002.

Viswavidyalaya, Gurukul Kangri, P. O. Gurukul, Kangri, Dist. Saharanpur.

Work Study, Defence Institute of, Landour Cantt., Mussoorie.

Zoology, Academy of, 164, Civil Lines, Agra 282001.

WEST BENGAL

COMMERCIAL

Air-conditioning & Refrigeration Assocn., Eastern India, C/o American Refrigerator Co. Ltd., 12-D, Park St., Calcutta 700016.

Aluminium Rollers and Fabricators Association, Eastern, 23A, Netaji Subash Rd., Calcutta 700016.

Aromatic Traders Association, 41, Ezra St., Calcutta 700001.

Arts & Crafts Exporters Assocn., Indian, 9B, Chowringhee Place, Calcutta 700013.

Automobile Association of Eastern India, 13, Ballygunge Circular Rd., Calcutta 700019.

Automotive Manufacturers' Association, India Exchange, India Exchange Place, Calcutta 700001.

Ball and Roller Bearing Manufacturers' Association of India, 3A, Shakespeare Sarani, Calcutta 700017.

Battery Manufacturers' Association, Indian, P-11, Mission Row Extn., Calcutta 700001.

Belting Industries Association, Indigenous, P-11, Mission Row Extn., Calcutta 700001.

Bolt and Nut Manufacturers' Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Bucket Manufacturers' Association of India, India Exchange, 7th Floor, Calcutta 700001.

Builders' Association of India (Eastern Centre), 8, Pran Krishna Mukherjee Rd., Calcutta 700002.

Builders' Hardware Industries Association of India, India Exchange, 7th Floor, Calcutta 700001.

Cabinet Makers' and Furnishers' Association, Calcutta, 254-K, Bipin Behari Ganguly St., Calcutta 700012.

Cable and Conductor Mfrs. Association, 195, Mahatma Gandhi Rd., Calcutta 700007.

Carpet Manufacturers' Association, Indian, 9B, Chowringhee Place, Calcutta 700013.

Cement Dealers' Association, Calcutta, 331, B. B. Chatterjee Rd., Calcutta 700042.

Cement Dealers Association, Howrah, 47/A, Dr. Abani Dutta Rd., Salkia, Howrah 711106.

Cement Dealers' Association, 24-Parganas, 8/1, Sarsuna Main Rd., Calcutta 700007.

Chain Association, All India, 29-B, Bentinck St., Calcutta 700001.

Chemical Mfrs. and Distributors Association, Bharat, P-11, Mission Row Extn., Calcutta 700001.

Chemical Manufacturers' Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Chemical Merchants and Manufacturers Association, Indian, India Exchange, 8th Floor, Calcutta 700001.

Chemists' & Druggists' Association, Bengal, 10, Bonfield Lane, Calcutta 700001.

Confectionery Manufacturers' Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Corrugated Box Mfrs. Association, Eastern India, 41, Chowringhee Rd., Calcutta 700016.

Cycle Manufacturers' Association of India, India Exchange, India Exchange Place, Calcutta 700001.

Cycle Traders' Association, Indian, 67, Bentinck St., Calcutta 700001.

Earthmoving Equipment Parts Association of Eastern India, 10/1, Princep St., Calcutta 700013.

Electric Traders' Association, Calcutta, 22, Rabindra Sarani, Calcutta 700001.

Electrical Contractors' Association (India) Ltd., Eastern Regional, 12/A1, Lindsay St., Calcutta 700016.

Electrical Manufacturers Association, Indian, India Exchange, 7th Floor, Calcutta 700001.

Employers' Association, India Exchange, India Exchange Extension, Calcutta 700001.

Export Inspection Council of India, World Trade Centre, 14/1B, Ezra St., Calcutta 700001.

Established by the Govt. of India to weed out substandard element from the export field, to stimulate greater quality consciousness within the country and to project an enduring and better image of India.

Chairman : V. Shankar ; *Member-Secy. :* C. N. Modawal ; *Addl. Dir. :* A. S. Cheema.

Fan Makers' Association of India, India Exchange, India Exchange Place, Calcutta 700001.

Fasteners Association of India, Industrial, India Exchange, 7th Floor, Calcutta 700001.

Flour Mills Association, Calcutta, 6, Netaji Subhas Rd., Calcutta 700001.

Foundry Association, Indian, India Exchange, 7th Floor, India Exchange Place, Calcutta 700001.

Freight Brokers Association, Calcutta, Royal Exchange, 6, Netaji Subhas Rd., Calcutta 700001.

Glass, Bottle and Cork Merchants' Association, Calcutta, 6, Ezra St., Calcutta 700001.

Glass Manufacturers' Association, Bengal, P-11, Mission Row Extn., Calcutta 700001.

Gunny Trades Association, 5, Clive Row, Calcutta 700001.

Hide and Skin Traders Association, Calcutta, 52, Narkeldanga North Rd., Calcutta 700011.

Hire Purchase Association, 6, Netaji Subhas Rd., Calcutta 700001.

Hosiery Manufacturers' Association, Bengal, 219, Bepin Behari Ganguli St., Calcutta 700012.

Hotel and Restaurant Association of Calcutta Region, Spences Hotel, 4, Wellesley Place, Calcutta 700001.

Hydraulic Press Association, Calcutta, 6, Netaji Subhas Rd., Calcutta 700001.

Import & Export Trade Association, Calcutta, Royal Exchange, Calcutta 700001.

Ink Manufacturers Association, P-11, Mission Row Extn., Calcutta 700001.

Insurance Companies Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Iron and Steel Scrap Dealers' Association, 66, Bentinck St., Calcutta 700001.

Jute and Hessian Exchange, Limited, East India, 43, Netaji Subhas Rd., Calcutta 700001.

Jute Association, Calcutta Baled, 6, Netaji Subhas Rd., Calcutta 700001.

Jute Balers' Association, 12, India Exchange Place, Calcutta 700001.

Jute Brokers' Association of India, India Exchange, Calcutta 700001.

Jute Dealers' Association, Bengal, 4, Commercial Bldgs., 23A, Netaji Subhas Rd., Calcutta 700001.

ute Fabric Brokers Association, 6, Netaji Subhas d., Calcutta 700001.

ute Fabric Shippers' Association, Calcutta, Royal Exchange, Calcutta 1.

Jute Mill Bobbin Manufacturers' Association, All India, P-11, Mission Row Extn., Calcutta 700001.

Jute Mills Association, Indian, Royal Exchange, Calcutta 700001.

Chairman : J. P. Goenka ; *Vice-Chairman :* Dr. B. P. Kedia ; *Secretary :* R. C. Mazumdar ; *Labour Adviser :* R. L. Moitra ; *Public Relations Officer :* M. C. Mukherji.

Jute Sellers' Association, Bharat, 2, India Exchange Place, Calcutta 700001.

Kirana (Spices) Merchants' Association, Calcutta, 29, Armenian St., Calcutta 700001.

Lac Exporters Association, Indian, 6, Netaji Subhas Rd., Calcutta 700001.

Lamp Factories Association, Indian, P-11, Mission Row Extn., Calcutta 700001.

Lantern Manufacturers' Association, India Exchange, 7th Floor, Calcutta 700001.

Magnet Wires and Cables Manufacturers' Association, C/o Electrical Industries Corpn., 49/1, Gariahat Rd., Calcutta 700019.

Manufacturers' Association, Howrah, 198, Bellilios Rd., Howrah 711101.

Manure Mikers Association, Indian, P-11, Mission Row Extn., Calcutta 700001.

Master Printers Association Ltd., W. Bengal, 32/1A, Creek Lane, Calcutta 700014.

Merchants Association, Dawoodi Bohra, 30, Brabourne Rd., Calcutta 700001.

Merchants' Association, Woodgola, 18, Woodgola Coal Depot, Calcutta 700015.

Metal Merchants' Association, Calcutta, P-11, Mission Row Extn., Calcutta 700001.

Metals Manufacturers' Association, Indian Non-Ferrous, India Exchange, India Exchange Place, Calcutta 700001.

Millowners Association, Bengal, 2, Church Lane, Calcutta 700001.

Mills Association, Indian Kapok, 16, Satyanarain Temple Rd., Salkia, Howrah 711106.

Mineral Association, Indian Union, C/o S. Lal & Co. Pvt. Ltd., 15, Chittaranjan Avenue, Calcutta 700013.

Mining Association, Indian, 6, Netaji Subhas Rd., Calcutta 700001.

Mining Federation, Indian, 135, B. R. B. Rd., Calcutta 700001.

Monograph Association of India, 3, British Indian St., Calcutta 700001.

Motor Dealers' Association, Calcutta, 8, Bow St., Calcutta 700012.

Motor Industries Association, 6, Netaji Subhas Rd., Calcutta 700001.

Paint Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Paper Makers' Association, Indian, 6, Netaji Subhas Rd., Calcutta 700001.

Paper Mills Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Paper Traders Association, Calcutta, P-11, Mission Row Extn., Calcutta 700001.

Pencil Manufacturers' Association, Indian, P-11, Mission Row Extn., Calcutta 700001.

Pharmaceutical Association, Indian, 84, Chowringhee Rd., Calcutta 700020.

Pharmaceutical Congress Association, Indian, C/o Standard Pharmaceuticals Ltd., 67, Dr. Suresh Sarkar Rd.. Calcutta 700014.

Pharmacy Council, West Bengal, 8, Lyons Range, Calcutta 700001.

Pipe Manufacturers' Association, Indian, India Exchange, Calcutta 700001.

Plywood Manufacturers' Association of India, P-11, Mission Row Extn., Calcutta 700001.

Plywood Manufacturers' Association of West Bengal, 22, Strand Rd., Calcutta 700001.

Produce Association, Indian, 402, Upper Chitpur Rd., Calcutta 700007.

Publishers & Booksellers Association of West Bengal, 93, Mahatma Gandhi Rd., Calcutta 700007.

Pump Manufacturers' Association, Indian, India Exchange, 7th Floor, Calcutta 700001.

Radio Electronics Association, All India, 3/C, Madan St., Calcutta 700013.

Refractory Makers' Association, Indian, 6, Netaji Subhas Rd., Calcutta 700001.

Refrigeration Traders Association, C/o Air Conditioning Corporation Ltd., 17, Taratolla Rd., Calcutta 700053.

Re-Rollers Association Limited, Bharat Small, 66, G. T. Rd., Liluah, Howrah 711101.

Rope Manufacturers' Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Rubber Industries Association, All India, 24, Netaji Subhas Rd., Calcutta 700001.

Saw Mill's Association, Eastern India, P-11, Mission Row Extn., Calcutta 700001.

Scientific Traders Association, Santragachi, Changitala, Howrah 711104.

Sheet Merchants' Association, Bengal Galvanised, 20, Strand Rd., Calcutta 700001.

Small and Medium Industries Federation, West Bengal, P-11, Mission Row Extn., Calcutta 700001.

Small Scale Electronic Industries Association, 8, Madan St., Calcutta 700001.

Smallscale Non-ferrous Industries Association, P-11, Mission Row Extn., Calcutta 700001.

Soap and Toiletries Makers Association, Indian, C/o Kusum Products Ltd., 9, Brabourne Rd., Calcutta 700001.

Stationery and Office Equipment Association of India, P-11, Mission Row Extn., Calcutta 700001.

Steel Exporters' Association, 18, Rabindra Sarani, Calcutta 700001.

Steel Furnace Association of India, 1-A, Mona Lisa, 17, Camac St., Calcutta 700017.

Steel Importers Association of India, India Exchange, India Exchange Place, Calcutta 700001.

Steel Merchants' Association of India, India Exchange, Calcutta 700001.

Steel Re-rollers Association, All India, 3/1/2, Armenian St., Calcutta 700001.

Steel Re-rolling Mills Association of India, 2, Brabourne Rd., Calcutta 700001.

Steel Wire Manufacturers' Association of India, India Exchange, India Exchange Place, Calcutta 700001.

Sugar Merchants' Association, Bengal, 2-C, Ramkumar Rakhit Lane, Calcutta 700007.

Sugar Merchants' Association, Calcutta, 4, Ramkumar Rakhit Lane, Calcutta 700007.

Sugar Mills Association, Indian, India Exchange, Calcutta 700001.

Tea Association, Indian, Royal Exchange, 6 Netaji Subhas Rd., Calcutta 700001.
Chairman : K. M. Kidwai ; *Vice-Chairman :* G. P. Goenka ; *Secretary :* J. D'Souza.

Tea Association of India, India Exchange, India Exchange Place, Calcutta 700001.
President : P. K. Daga ; *Senior Vice-President :* Rambhai A. Patel ; *Vice-President :* P. K. Bagla ; *Secretary-General :* C. S. Pande.

Tea Packeters' Association of India, 9, Shakespeare Sarani, Calcutta 700016.

Tea Planters' Association, Indian, Post Box No. 74, Jalpaiguri 735101.

Tea Traders' Association, Calcutta, 6, Netaji Subhas Rd., Calcutta 700001.
Chairman : J. G. Patel ; *Vice-Chairman :* D. Sabikhi ; *Secretary :* Amit Sen.

Textile Chamber, Bharat, 208, Jamunalal Bajaj St., Calcutta 700007.

Textile Dealers' Association, Bengal, 30, Cotton St., Calcutta 700007.

Textile Dealers' Association, West Bengal, P-11, Mission Row Extn., Calcutta 700001.

Textile Merchants' Association, 160, Jamnalal Bajaj St., Calcutta 700007.

Tinplate Fabricators Association, India Exchange, India Exchange Place, Calcutta 700001.

Tobacco Merchants' Association, Calcutta Biri, 1, Rupchand Roy St., Calcutta 700007.

Traders Association, Bengal, P-11, Mission Row Extn., Calcutta 700001.

Trades Association, Calcutta, 18-H, Park St., Calcutta 700016.

Trades Association, Gunny, 5, Clive Row, Calcutta 700001.

Tyre Dealers & Retreaders Association, Calcutta, 3, Gokhale Rd., Calcutta 700020.

Umbrella Rib Manufacturers' Association, India Exchange, 8th Floor, Calcutta 700001.

Warehouse Association, Bengal Bonded, 25, Netaji Subhas Rd., Calcutta 700001.

Wine, Spirit and Beer Association of India, 6, Netaji Subhas Rd., Calcutta. 700001.
Chairman : H. P. Bhagat ; *Dy. Chairman :* D. B. Sethi.

Wire Industries Association, Indian, 222, Rabindra Sarani, Calcutta 700001.

Wire Rope Manufacturers' Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

Yarn Merchants' Association, Calcutta, 89, Jamunalal Bajaj St., Calcutta 700007.

Zinc Oxide Manufacturers' Association, Indian, India Exchange, India Exchange Place, Calcutta 700001.

CULTURAL, SOCIAL AND PROFESSIONAL

Aeronautical Engineers of India Ltd., Society of Model, 16, Shakespeare Sarani, Calcutta 700016.

Agricultural and Horticultural Society of India, Royal, 1, Alipore Rd., Calcutta 700027.

Arya Samiti, Arya Samiti Road, Behala, Calcutta 700034.

Astrological and Astronomical Society, All India, 88/2, R. A. Kidwai Rd., Calcutta 700013.

Bible Society of India and Ceylon, 23, J. L. Nehru Rd., Calcutta 700013.

Bijnan Parishad, Bangiya, P. 23, R. R. K. St., Calcutta 700006.

Billiards Association and Control Council of India, C/o Great Eastern Hotel, Old Court House St., Calcutta 700001.

Bohurupee, 7, Lower Ring, Calcutta 700017.

Bratachari Society, Bengal, 191/1, B. B. Ganguly St., Calcutta 700012.

Buddhist Society of India and Buddhist Mission of India, 31/1, Baghbazar St., Calcutta 700003.

Caledonian Society, Calcutta, 6, Netaji Subhas Rd., Calcutta 700001.

Ceramic Society, Indian, Central Glass & Ceramic Research Institute, Calcutta 700032.

Chemical Society, Indian, 92, Acharya Prafulla Chandra Rd., Calcutta 700009.

Child Welfare, West Bengal Council for, 55/6, Purna Das Rd., Calcutta 700029.

Children in India, Society for the Protection of, 2B, Camac St., Calcutta 700016.

Copper Information Centre, Indian, 27B, Camac St., Calcutta 700016.

Cricket Club, Calcutta, 19/1, Gurusaday Rd., Ballygunge, Calcutta 700019.

Dakshinee, 'Dakshinee Bhavan', 1, Deshapriya Park West, Calcutta 700026.

Dr. B. C. Roy Memorial Committee, 59B, Chowringhee Rd., Calcutta 700029.

Engineering Association, Indian, 6, Netaji Subhas Rd., Calcutta 700001.

Engineering Association of India, India Exchange, Bldg., Calcutta 700001.
President : M. K. Jhawar ; *Secretary-General :* C. S. Pande ; *Secretary :* Dr. R. D. Vidyarthi.

Engineers, Indian Society of, 16, India Exchange Place, Calcutta 700001.

Engineers (India), Institution of, 8, Gokhale Rd., Calcutta 700020.

Equitation and Horsemastership, Indian Society of, 51, Chowringhee, Calcutta 700016.

Folklore Society, Indian, 3, British Indian St., Calcutta 700001.

Football Association, Indian, 11/1, Sooterkin St., Calcutta 700013.

Gaudiya Mission, Sri Gaudiya Math, 16A, Kali Prasad Chakravarthy St., Calcutta 700003.

Geographical Society of India, 35, Ballygunge Circular Rd., Calcutta 700019.

Geological, Mining and Metallurgical Society of India, Geology Dept., Calcutta Univ., Calcutta 700019.

Hind Seva Samity, 93, Mahatma Gandhi Rd., Calcutta 700007.

Hindu Satkar Samity, 93, Mahatma Gandhi Rd., Calcutta 700007.

Indian Association, 62, Bowbazar St., Calcutta 700012.

Iran Society, 12, Kyd St., Calcutta 700016.

Journalists' Association, Indian, 249-B, B. B. Ganguly St., Calcutta 700012.

Lead/Zinc Information Centre, Indian, 5A, Lord Sinha Rd., Calcutta 700016.

Legal Aid Society, Indian, 2, Canal St., Calcutta 700014.

Library Association, Bengal, P 134, CIT Scheme, LII, Calcutta 700014.

Maha Bodhi Society of India, 4-A, Bankim Chatterji St., Calcutta 700012.

Centres : Sarnath, Gaya, New Delhi, Buddhagaya, Bombay, Madras, Lucknow, Ajmer, Kalimpong, Cuttack and Sanchi.

Mahila Seva Samity, 8, Govenrment Place (N), Calcutta 700001.

Manimela Mahakendra, Rabindra Sarobar Stadium, Block 11, Room V, Calcutta 700029.

Marwari Federation, All India, 152-B, Mahatma Gandhi Rd., Calcutta 700007.

Medical Association, Indian, Bengal State Branch, 67, Dharamtolla St., Calcutta 700013.

Medical Council, West Bengal, 8, Lyons Range, Calcutta 700001.

Mountaineering Institute, Himalayan, Jawahar Parbat, Darjeeling 734101.

Museum, Indian, 27, Jawaharlal Nehru Rd., Calcutta 700013.

Muslim Welfare Society, 58, Rabindra Sarani, Calcutta 700001.

Natya Sampradaya, 79/2d, Raja Naba Kissen St., Calcutta 700005.

Nurses Association, Calcutta, 65-A, Dharamtolla St., Calcutta 700013.

Nursing Council, West Bengal, 8, Lyons Range, Calcutta 700001.

Philosophical Congress, Indian, Visva Bharati University, Santiniketan.

Physical Culture Association, All Bengal, 5, Krishna Bihari Sen Street, Calcutta 700007.

Pinjrapole Society, Calcutta, 34, Armenian St., Calcutta 700001.

Productivity Council, Calcutta, 9, Syed Amir Ali Ave., Calcutta 700017.

Psychotherapeutical Society, Indian, Sch. 49, P-23, CIT Rd., Calcutta 700014.

Public Health Association, Indian, 110, Chittaranjan Ave., Calcutta 700012.

Purchasing Officers' Association of India, 8B, Short St., Calcutta 700017.

Quality Control, Indian Society for, India Exchange, 7th Floor, Calcutta 700001.

Ramakrishna Math and Mission, P. O. Belur Math, Dist. Howrah.

Ramakrishna Mission Institute of Culture, 21, Gol Park, Calcutta 700029.

Ramakrishna Vedanta Math, 19-B, Raja Rajkrishna St., Calcutta 700006.

Red Cross Society, Indian (West Bengal State Branch), 5 & 6, Govt. Place North, Calcutta 700001.

Safety First Association of India (Bengal Provincial Branch), 77A, Park St., Calcutta 700016.

Salvation Army, 37, Dharamtolla St., Calcutta 700013.

Science, Indian Association for the Cultivation of, Jadavpur, Calcutta 700032.

Science Congress Association, Indian, 64, Dilkusha St., Calcutta 700017.

Scouts and Guides, Bharat, 5, Govt. Place North, Calcutta 700001.

Shishu Niketan, 32/10 A, Beadon St., Calcutta 700006.

St. John Ambulance Brigade, 5, Govt. Place North, Calcutta 700001.

Statistical Association, Calcutta, 35, Ballygunge Circular Rd., Calcutta 700019.

Stevedores' Association, Calcutta Master, P-11, Mission Row Extn., Calcutta 700001.

Stevedores' Association, Master, 6, Netaji Subhas Rd., Calcutta 700001.

Swimming Association, National, Pavilion, Azad Hind Bagh, Calcutta 700006.

Tamil Sangham, Bharathi, 93-A, Rashbehari Avenue, Calcutta 700026.

Tax Payers and Consultants Association, 12, Old Post Office St., Calcutta 700001.

Taxi Association, Bengal, 157B, Lenin Sarani, Calcutta 700013.

Teachers' Association, All Bengal, 15, Bankim Chatterjee St., Calcutta 700012.

Theosophical Society, Bengal, 4/3A, Bankim Chatterjee St., Calcutta 700012.

Trades Union Congress, United, 249, B. B. Ganguly St., Calcutta 700012.

Translators' Society of India, 5, Dwarkanath Tagore Lane, Calcutta 700007.

Tuberculosis Association, Bengal, 21, Dr. Sundari Mohan Avenue, P. O. Entally, Calcutta 700014.

Tuberculosis Relief Association, 73, Dharamtolla St., Calcutta 700013.

United Kingdom Citizens' Association, 51, Chowringhee Rd., Calcutta 700016.

United Nations, Calcutta Association for, 62, Bepin Behari Ganguly St., Calcutta 700012.

Vivekananda Mission, 10, Ramakrishna Lane, Baghbazar, Calcutta 700003.

Vivekananda Society, 151, Vivekananda Rd., Calcutta 700006.

West Bengal, Andaman & Nicobar Charitable Society, 9, Clive Row, Calcutta 700001.

Womens' Conference, All India, C.I.T. Scheme IV, Beliaghata Main Rd., Calcutta 700010.

Womens' Education Society, Bani Mandir, 2, Dr. A. R. Chowdhury Lane, Calcutta 700019.

Womens' Union, All Bengal, 89, Elliot Road, Calcutta 700016.

Writers' Co-op. Society Ltd., West Bengal, 39, Baranasi Ghose St., Calcutta 700007.

Writers' Guild, 5, Dwarakanath Tagore Lane, Calcutta 700007.

Y.M.C.A., 25, Chowringhee Rd., Calcutta 700003.

Young Women's Christian Association, 134, Surendra Nath Banerji Rd., Calcutta 700013.

Zoological Society of India, 34, Chittaranjan Ave., Calcutta 700012.

EDUCATIONAL AND RESEARCH

Adult Education Association, Bengal, 1/12 College Square, Calcutta 700012.

Advancement of Management, Indian Chapter of Society for, 20, Mott Lane, Calcutta 700013.

Asian & African Relations, Institute of, 57/B, Beltola Rd., Calcutta 700025.

Aswini Kumar Institute, 5, Janak Rd., Calcutta 700029.

Bose Institute, 93/1, Upper Circular Rd., Calcutta 700009.

Catering Technology and Applied Nutrition, Institute of, 21, Convent Rd., Calcutta 700014.

Chemical Engineers, Indian Institute of, Jadavpur Univ., Calcutta 700032.

Chemists (India), Institution of, Chemical Dept., Medical College, Calcutta 700012.

Child Health, Institute of, 95, Dilkhusa St., Calcutta 700017.

Computer Education, Institute of, Dabriwala House, 10, Middleton Row, Calcutta 700016.

Cost and Works Accountants of India, Institute of, 12, Sudder St., Calcutta 700016.

Detective Training & Forensic Institutes, Central, 20, Gorachand Rd., Calcutta 700014.

Foundrymen, Institute of Indian, 1/2, Allenby Rd., Calcutta 700020.

Insurance Institute, Indian, P-11, Mission Row Extn., Calcutta 700001.

Jute Agricultural Research Institute, Barrackpore.

Jute Industries' Research Association, Indian, 17, Taratola Rd., Calcutta 700053.

Jute Technology, Institute of, 35, Ballygunge Circular Rd., Calcutta 700019.

Law Institute, Indian, City Civil Court Bldg., Calcutta 700001.

Management, Indian Institute of, " Emerald Bower ", 56-A, Barrackpore Trunk Rd., Calcutta 700050.

Medical Aid and Research Society, Calcutta, Jadavpur, Calcutta 700032.

Metals Indian Institute of, 2, Sambhu Nath Pandit St., Calcutta 700020.
President : P. Anant ; *Vice-President :* F. A. A. Jasdanwalla ; *Hon. Secy. :* M. N. Parthasarathi.

Mining, Geological and Metallurgical Institute of India, 29, Chowringhee Rd., Calcutta 700016.
Pres. : K. Z. George ; *Hon. Secy. :* H. K. Bose.

National Cancer Research Centre, Chittaranjan, 37, Syamaprosad Mukherjee Rd., Calcutta 700026.

National Medical Institute, Calcutta, 32, Gorachand Rd., Calcutta 700014.

Pasteur Institute, School of Tropical Medicine, Chittaranjan Ave., Calcutta 700012.

Personnel Management, Indian Institute of, 17, Park St., Calcutta 700016.

Plywood Industries Research Association, Indian, 2/2, Biren Roy Rd. West, Calcutta 700008.

River Research Institute, 11A, Free School St., Calcutta 700016.

Road Transport, Indian Institute of, 1/2, Lord Sinha Rd., Calcutta 700016.

Saha Institute of Nuclear Physics, 92, Acharya Prafulla Chandra Rd., Calcutta 700009.

Santi Institute, 26/1/A, Sasi Bhuson Dey St., Calcutta 700012.

Secretaries, Chartered Institute of (India Association), C/o Wellman Incandescent India Ltd., 8, Harrington St., Calcutta 700016.

Social Welfare and Business Management, Indian Institute of, 3, Madan Mohan Sen St., Calcutta 700007.

Statistical Institute, Indian, 203, Barrackpore Trunk Rd., Calcutta 700035.

Technology, Indian Institute of, Kharagpur.

CHAMBERS OF COMMERCE

ANDHRA PRADESH

Andhra Chamber of Commerce, 68-B, Rashtrapati Rd., Secunderabad 500003.

Andhra Film Chamber of Commerce, Andhraratna Rd., Gandhinagaram, Vijayawada 520003.

Bhimavaram Chamber of Commerce, Bhimavaram, 534201.

Chamber of Commerce, Tadepalliguden, 534101.

Cocanada Chamber of Commerce, Commercial Rd., Kakinada 533001.

Federation of Andhra Pradesh Chambers of Commerce & Industry, 3-5-822/6, Hyderguda, Hyderabad 500001.
President : R. C. Lahoti ; *Vice-President :* C. V. Sitaramaswamy ; *Secretary :* C. A. Rebello.

Federation of East Godavari Dist. Chamber of Commerce & Industry, Devata Bhavan, Rajahmundry 533101.

Godavari Chamber of Commerce, Vallabhbhai St., Kakinada, 533001.

Gouthami Chamber of Commerce, Main Rd., Rajamundry 533101.

Indian Chamber of Commerce, P. Box 67, Guntur.

Krishna District Chamber of Commerce, Fort Rd., Masulipatnam 521001.

Kurnool District Chamber of Commerce, No. 1/8, Main Bazar, Peta, Kurnool 518001.

Nellore Chamber of Commerce, Tobacco Field, Nellore 524001.

Palakoi Chamber of Commerce, Palakol, W. Godavari Dist.

Rajamundry Chamber of Commerce Ltd., Rajamundry 533101.

Vijayawada Chamber of Commerce, North Block No. 42, Kaleswararao Market, Vijayawada 520001.

Vizagapatam Chamber of Commerce, 16/9, Main Rd., Visakhapatnam 530001.

Vizianagaram Chamber of Commerce, Main Rd., Vizianagaram 531201.

Warangal Chambers of Commerce, 29/67, Grain Market Area, Warangal.

West Godavari Associated Merchants' Chamber, Plantations Bazar, Main Rd., Elluru 534001.

ASSAM

Assam Chamber of Commerce, Keating Rd., Shillong 793001.

Assam Chamber of Commerce & Industry, Morello Bldg., Shillong 793001.

Assam National Chamber of Commerce, P. O. Ulubari, Gauhati 781001.

Frontier Chamber of Commerce, G. S. Rd., Shillong 793001.

Kamrup Chamber of Commerce, Gauhati 781001.

BIHAR

Bihar Chamber of Commerce, Judges' Court Rd., P. O. Box No. 71, Patna 800001.

Chotanagpur Chamber of Commerce & Industry, Main Rd., Ranchi 834001.

Eastern Bihar Chamber of Commerce, Bhagalpur 812002.

Jamshedpur Chamber of Commerce, 35, Laxmi Mansion, Jamshedpur 831001.

North Bihar Chamber of Commerce & Industry, Muzaffarpur 842001.

Patna Divisional Chamber of Commerce & Industry, S. P. Varma Rd., Patna 800001.

Shahbad Chamber of Commerce & Industry, Jail Rd., Arrah 802301.

DELHI

Associated Chamber of Commerce & Industry of India, Allahabad Bank Bldg., 17, Parliament St., New Delhi 110001.

Delhi Chamber of Commerce, Dilbar Bldg., Paharganj, New Delhi 110055.

Federation of Indian Chamber of Commerce & Industry, Federation House, Bazar Marg, New Delhi 110001.
President : Madanmohan Mangaldas; *Secretary-General :* G. L. Bansal.

Indo-American Chamber of Commerce, Marshall House, Hanuman Rd., New Delhi 110001.

Indo-German Chamber of Commerce, Q3, Hauz Khas, New Delhi 110016.

Indo-Polish Chamber of Commerce & Industries, Phelps Bldg., Connaught Place, New Delhi 110001.

International Chamber of Commerce, Indian National Cttee., Federation House, Tansen Marg, New Delhi 110001.
President : M. V. Arunachalam; *Vice-President :* A. K. Jain; *Secretary-General :* G. L. Bansal; *Jt. Secretary General :* P. Chentsal Rao.

Punjab, Haryana and Delhi Chamber of Commerce & Industry, Phelps Bldg., 9-A, Connaught Place, New Delhi 110001.
Chairman : Prem Pandhi; *Dy. Chairman :* S. Raunaq Singh; *Secretary :* M. L. Nandrajog.

Punjab Merchants' Chamber, 45, Khurshid Market, Sadar Bazar, Delhi 110006.

United Chamber of Trade Associations, Nai Sarak (Katra Rathi), Delhi 110006.

GOA

Goa Chamber of Commerce & Industry, P. Box No. 59, Panaji 403001.

GUJARAT

Broach Chamber of Commerce & Industry, Lallubhai Chakla, Bharuch 392001.

Central Gujarat Chamber of Commerce, Federation Bldg., Race Course Rd., Vadodara 390009.

Chamber of Commerce, BBZ-N-41, Gandhidham.

Gujarat Chamber of Commerce & Industry, Gujarat Chamber Bldg., Ranchhodlal Rd., Ahmedabad 380009.
President : Dr. Biharilal Kanaiyalal; *Hon. Secretary :* Popatlal C. Jain.

Junagadh Chamber of Commerce, Mahalaxmi St., Junagadh 362001.

Morvi Chamber of Commerce & Industry, Cotton Association Hall, Near Darbangadh, Morvi.

Nawanagar Chamber of Commerce, Chamber Hall, Grain Market, Jamnagar 361001.

Panchmahal Chamber of Commerce, Station Rd., Godhra 389001.

Porbandar Chamber of Commerce, Manek Chowk, Porbandar.

Saurashtra Chamber of Commerce, Old Darbargadh, Bhavnagar 364001.

Shri Zalawad Chamber of Commerce & Industry, Main Bazar, Surendranagar 363001.

Southern Gujarat Chamber of Commerce & Industry, Samruddhi Dutch Rd., Nanpura, Surat 395001.

HARYANA

Haryana Chamber of Commerce & Industry, 324-B, Model Town, Ambala City 134003.

JAMMU & KASHMIR

Chamber of Commerce, Jammu 180001.

Kashmir Chamber of Commerce & Industry, Residency Rd., Srinagar 190001.

KERALA

Calicut Chamber of Commerce & Industry, South Manachira Road, Calicut 673001.

Chamber of Commerce, Arecal Bldgs., M. C. Rd., Kottayam 686001.

Chamber of Commerce, Kunnamkulam, Trichur Dist.

Chamber of Commerce, Trichur 680001.

Chamber of Commerce, Chalai, Trivandrum 695001.

Cochin Chamber of Commerce & Industry, Bristow Rd., Willingdon Island, Cochin 682003.
President : N. B. Menon; *Vice-President :* R. Indu Sekhar; *Secretary :* P. Sethuram.

Ernakulam Chamber of Commerce, Shanmukham Rd., Ernakulam 1.

Indian Chamber of Commerce, P. O. Box No. 236, Cochin 682002.
President : Ahamed Usman Sait; *Vice-President :* T. Tharanath Shet; *Secretary :* V. K. Raja.

Malabar Chamber of Commerce, Calicut 673001.
President : C. P. Kunhammed; *Vice-Presidents :* R. N. Saboo, Liladhar N. Mehta; *Hon. Secretaries :* C. C. Vulson, S. V. Govindaswamy.

North Malabar Chamber of Commerce, Fort Rd., Cannanore 670001.

North Travancore Chamber of Commerce, Bank of Alwaye Bldgs., Alwaye 683101.

Palghat Chamber of Commerce, Palghat 678001.
President : K. Vasudevan; *Vice-Presidents :* C. Kuppuswamy, T. V. Krishnamoorthy; *Hony. Secretaries :* R. S. P. Swaminathan, K. V. Cherappan.

Regional Chamber of Commerce, Big Bazar, Palghat 678001.

Travancore Chamber of Commerce, Alleppey 688001.

MADHYA PRADESH

Adiwasi Chamber of Commerce, Alirajpur.

Bhopal Chamber of Commerce & Industry, Bhopal 462001.

Central India Chamber of Commerce & Industry, Bambakhana, Ujjain 456001.

Chamber of Commerce, Ratlam 457001.

Madhya Pradesh Chamber of Commerce & Industry, Chamber Bhavan, Gwalior 474001.
President : D. P. Mandelia; *Vice-President :* R. B. Vaishya; *Hon. Secretary :* M. L. Garg.

Mahakoshal Chamber of Commerce, Jawaharganj, Jabalpur 482001.

Malwa Chamber of Commerce, Cloth Market, 77, Sitlamata Bazar, Indore 452002.

Raipur Chamber of Commerce & Industry, Sadar Bazar, Raipur 492001.

MAHARASHTRA

Bombay

All India Exporters' Chamber, Janmabhoomi Chambers, Fort St., Bombay 400001.
President : Purshotamdas D. Podar; *Secretary :* Ojas P. Roy.

Belgo-Indian Chamber of Commerce & Industry, Taj Bldg., 210, Dr. D. Naoroji Rd., Bombay 400001.
Hon. Secretary : V. S. Nadkarni.

Bharat Merchants' Chamber, 339, Kalbadevi Rd., Bombay 400002.

Bombay Chamber of Commerce & Industry, Mackinnon Mackenzie Bldg., B. Estate, Bombay 400001.
President : A. D. Mango; *Dy. Secretary :* B. P. Gunaji.

East India Chamber of Commerce Ltd., Patwa Chawl, Sheikh Memon St., Bombay 400002.

Federation of Indian Chamber of Commerce & Industry, 76, Veer Nariman Rd., Bombay 400020.

Handicraft Exports Chamber, Ganesh Bhuvan, 89A, Dadishet Agiary St., Bombay 400002.

Hindustan Chamber of Commerce, 342, Kalbadevi Rd., Bombay 400002.

Indian Merchants' Chamber, 76, Veer Nariman Rd., Bombay 400020.
President : Viren J. Shah; *Vice-President :* G. R. Podar; *Secretary :* C. L. Gheevala.

Indo-American Chamber of Commerce, 1-C, Vulcan Insurance Building, Veer Nariman Rd., Bombay 400020.
President : S. P. Mandelia, *Exec. Vice-Presidents :* J. R. Bammi, A. R. Burton, K. S. Narayanan, A. G. Neff, Manmohan Singh; *Secretary-General :* Ramu Pandit.

Indo-German Chamber of Commerce, Vulcan Insurance Bldg., Veer Nariman Rd., Bombay 400020.
President : D. Laengenfelder; *Vice-President :* A. N. Kilachand; *Secretary-General :* Dr. G. Krueger.

Italian Chamber of Commerce for India, Vaswani Mansions, D. Vachha Rd., Bombay 400020.

Maharashtra Chamber of Commerce, 12, Rampart Row, Bombay 400001.
President : M. L. Apte; *Vice-Presidents :* M. P. Chitale, S. B. Garware, S. M. Rathi. *Secretary :* R. G. Mohadikar.

Memon Chamber of Commerce, Patharia Palace, Mohamedali Rd., Bombay 400003.

Sindhi Chamber of Commerce & Industry, Garib CHS Ltd., 5th North South Rd., Bombay 400056.

Western India Chamber of Commerce Ltd., 232-234, Kalbadevi Rd., Bombay 400002.

Districts

Chamber of Commerce, Sangli 416416.

Maharatta Chamber of Commerce & Industry, Tilak Rd., Poona 411009.

Mahavidarbha Chamber of Commerce & Industry, Vohuman Lodge, Byramji Town, Nagpur 440001.

Nagpur Chamber of Commerce Ltd., Cotton Market, Nagpur 440002.

Nag-Vidharbha Chamber of Commerce, Temple Rd., Civil Lines, Nagpur 440002.
President : B. Kamdar; *Vice-Presidents :* V. D. Loya, (Sr.), H. M. Shukla (Jr.); *Secretaries :* K. N. Sharma, R. S. Jejani.

Nasik District Chamber of Commerce, 986, Ravivar Peth, Nasik 422001.

Poona Merchants' Chamber, 185, Bhavani Peth, Poona 411002.

Sholapur Chamber of Commerce, Siddeshwar Market, W. Mangalwar Peth, Sholapur 413002.

Vidarbha Chamber of Commerce, Akola 444001.

MYSORE

Belgaum Chamber of Commerce, 670, Raviwar Peth, Belgaum 590001.

Bellary District Chamber of Commerce, Bangalore Rd., Bellary 583101.

Chamber of Commerce & Industry, Prabha Pictures House Bldg., Hanumantha Rao St., Mysore 570001.

Dharwar Chamber of Commerce, Dharwar 580001.

Hospet Chamber of Commerce, Near Town Reading Room, Hospet, 583201.

Hyderabad Karnatak Chamber of Commerce & Industry, No. 7-671, Nehru Ganj Rd., Gulburga 585101.

Kanara Chamber of Commerce, P. Box No. 116, Bunder, Mangalore 575001.
President : Panchmal Vasudeva Kamath; *Vice-President :* Sowkar M. Baba Pai; *Hon. Secretaries :* B. R. Kamath and Sevgur Ramachandra Kamath.

Karnatak Chamber of Commerce & Industry, Jayachamaraj Nagar, Hubli 580020.
President : R. G. Wali; *Vice-Presidents :* J. P. Javali, P. S. Talikoti, L. V. Muddanna; *Hon. Secretaries :* V. M. Mirji, S. I. Shettar.

Mysore Chamber of Commerce & Industry, Kempegowda Rd., Bangalore 560009.
President : G. Ramaratnam; *Secretary :* M. V. Krishna Murthy.

Udipi Chamber of Commerce, Udipi 576101.

ORISSA

Cuttack Chamber of Commerce, Malgodown, Cuttack 753003.

Ganjam Chamber of Commerce, Behrampur 760001.

Orissa Chamber of Commerce & Industry, Barbati Stadium, Cuttack 753001.

Utkal Chamber of Commerce & Industry, Cantonment Rd., Cuttack 753001.

PONDICHERRY

Chamber of Commerce, Post Box No. 26, Karikal.

Chamber of Commerce, Pondicherry 605001.

PUNJAB

Northern India Chamber of Commerce & Industry, Chandigarh 160017.

Punjab Federation of Industry & Commerce, Inside Hall Gate, Amritsar 143001.

RAJASTHAN

Bikaner Vyapar Mandal, K. E. M. Rd., Bikaner 334001.

Chamber of Commerce, Sadar Bazar, Bundi 323001.

Chamber of Commerce, Bara Bazar, Udaipur 313001.

Chamber of Commerce & Industry, Bharatpur.

Jaipur Chamber of Commerce & Industry, Johari Bazar, Jaipur 302001.
President : Magan Beharilal; *Vice-President :* Sohanlal Sogani; *Hony. Secretary :* Komalchand Patri.

Marwar Chamber of Commerce, 5, Haider Bldgs., Sojati Gate, Jodhpur 342001.

Rajasthan Chamber of Commerce & Industry, Johari Bazar, Jaipur 302003.

President : Alok P. Jain; *Sr. Vice-President :* Khailashanker Durlabhji; *Vice-Presidents :* Lalchand Kothari, S. K. Mansinghka, C. M. Agarwal, Shrinath Maheshwari, Magan Beharilal; *Hon. Secretary :* K. L. Jain.

United Chamber of Commerce, Sadul Memorial Marg, Bikaner 334001.

TAMIL NADU

Andhra Chamber of Commerce, 272/73, Angappa Naick St., Madras 600001.

Chamber of Commerce & Industry, Kallukati North, Karaikudi 623001.

Coimbatore Chamber of Commerce, Race Course Rd., Coimbatore 641018.

Erode Chamber of Commerce, 189, Sathi Rd., Erode 638001.

Hindustan Chamber of Commerce, Hindustan Chamber Bldg., 8, Kondi Chetty St., Madras 600001.
President : K. M. Mamman Mapillai; *Vice-Presidents :* Deepak Banker, K. Rajgopal Chetty, H. P. Chordia, N. Sankar; *Treasurer :* N. Srinivasan; *Secretary :* G. R. Rao.

Indian Chamber of Commerce, 6/83, Avanashi Rd., Coimbatore 641018.
President : K. Sundaram; *Hon. Secretaries :* A. N. Nayak, N. A. Parasuraman.

Indian Chamber of Commerce, 84-B, South Raja St., Tuticorin 628001.

Indian Chamber of Commerce & Industry, 23, First Line Beach, Nagapattinam 611001.

Indo-American Chamber of Commerce, C/o Cheseborough-Pond's Inc., 19, Commander-in-Chief Rd., Madras 600008.

Indo-German Chamber of Commerce, 38/3, Mount Rd., Madras 600006.

Madras Chamber of Commerce & Industry, Dare House Annexe, 3/4, Moore St., Madras 600001.
Chairman : N. S. Bhat; *Vice-Chairman :* A. K. Sivaramakrishnan; *Secretary :* C. S. Krishnaswami.

Madura Ramnad Chamber of Commerce, 90-92, East Avanimoola St., Madurai 625001.

National Chamber of Commerce, 22, Broadway, Madras 600001.

Pudukottai Division Chamber of Commerce, Silver Hall, Old Palace Square, Pudukottai 622001.

Rajapalayam Chamber of Commerce, Hospital Rd., Rajapalayam, Dist. Ramnad.

Salem District Chamber of Commerce, Venkata Rao Rd., Salem 636001.

Sivakasi Chamber of Match Industries, 7-1-36, Sivan Sannathi St., Sivakasi.

South Travancore Chamber of Commerce, N. M. C. No. 29/201, Cape Rd., Kottar, Nagercoil.

Southern India Chamber of Commerce, Indian Chamber Bldg., Esplanade, Madras 600001.

Tamil Chamber of Commerce, 310-311, Linghi Chetty St., Madras 600001.

Trichinopoly District Chamber of Commerce, Theradikadai St., Tiruchirapalli 620002.

Tuticorin Chamber of Commerce, South Beach Rd., Tuticorin 628001.

Tuticorin-Ceylon Current Exporters' & Importers Chamber, 8, South Raja St., Tuticorin 628001.

Vellore Chamber of Commerce, 147/1, Chunnambukara St., Vellore 632001.

Vijaya Bharatha Chamber of Commerce Ltd., Virudhunagar 626001.

Virudhanagar Chamber of Commerce & Industry, P. Box 47, Virudhunagar 626001.

UTTAR PRADESH

Agra Merchants' Chamber Ltd., Bari Kothi, Belanganj, Agra 282001.

Chamber of Commerce, Chandausi.

Chamber of Commerce, Hapur, Dist. Meerut.

Doon Chamber of Commerce & Industry, 4, Nashvilla Rd., Dehra Dun 248001.

Eastern U. P. Chamber of Commerce & Industry, 5, Prayag St., Allahabad 211001.

Merchants' Chamber of U. P., 14/38, Civil Lines, Kanpur 208001.

Muzaffarnagar Chamber of Commerce, Muzaffarnagar, 251001.

National Chamber of Industries and Commerce, P. O. G. G. Industries, Agra 282001.

North India Chamber of Commerce & Industry, Dehra Dun 248001.

Shahjahanpur Merchant's Chamber, Shahjahanpur 242001.

Traders Chamber of Uttar Pradesh, Meston Rd., Kanpur 208001.

U. P. Chamber of Commerce, 15-197, Civil Lines, Kanpur 208001.

U. P. Chamber of Commerce & Industry, Chamber Bhavan, Opp. Govt. Roadways, Meerut 250001.

Upper India Chamber of Commerce, P. Box No. 63, Kanpur 208001.

Vijai Beopar Chamber Ltd., New Mandi, Muzaffarnagar 251001.

Western U. P. Chamber of Commerce & Industry, Pooramchand Bldg., Bombay Bazar, Meerut Cantt. 250017.

WEST BENGAL

Associated Chamber of Commerce & Industry of India, 6, Netaji Subhas Rd., Calcutta 700001.
President : A. N. Haksar; *Deputy Presidents :* N. A. Palkhivala, Prem Gandhi; *Secretary :* A. T. Robertson.

Bengal Chamber of Commerce & Industry, Royal Exchange, Calcutta 700001.
President : A. N. Haksar; *Secretary :* A. T. Robertson.

Bengal National Chamber of Commerce & Industry, P-11, Mission Row Extn., Calcutta 700001.
President : T. P. Chakraborti; *Vice-Presidents :* G. Saha, Milan Sen; *Secretary :* A. R. Dutta Gupta.

Bharat Chamber of Commerce, State Bank Bldg., 195 M. Gandhi Rd., Calcutta 700007.

Eastern Chamber of Commerce, 9/21, Bijoy Garh, Calcutta 700032.

Indian Chamber of Commerce, India Exchange, India Exchange Place, Calcutta 700001.
President : R. B. Shah; *Sr. Vice-President :* B. M. Khaitan; *Vice-President :* D. P. Chakravarti; *Secretary-General :* C. S. Pande.

Indo-American Chamber of Commerce, C/o Aeicorp (P) Ltd., 10, Lall Bazar St., Calcutta 700001.

Indo-German Chamber of Commerce, Ilaco House, 1/3, Brabourne Rd., Calcutta 700001.

Kalimpong Chamber of Commerce, Kalimpong, Dist. Darjeeling.

Merchants' Chamber of Commerce, 3/1/2, Armenian St., Calcutta 700001.

Oriental Chamber of Commerce, 6, Clive Row, Calcutta 700001.

Raniganj Chamber of Commerce, Raniganj.

ANDAMAN AND NICOBAR ISLANDS

(Union Territory)

HEADQUARTERS: Port Blair; **Population:** 26,212.

Area of the Territory: 8,293 sq. kms. (Andamans 6,340 Sq. km. Nicobars 1,953 sq. km.); **Population:** 115,090; **Density:** 14 per sq. km.; **Sex ratio:** 644 females per 1,000 males; **Literacy:** 43·48 per cent.

No. of villages: 314.

Boundary: Islands in the Bay of Bengal.

The Andamans are a string of islands of various sizes, large and small, lying between 10° to 13° 45′ N latitude and from 92° 15′ to 93° 15′ E longitude in the Bay of Bengal. They have an average width of 24·13 kms. and an axis of about 321·8 kms. The northernmost 'Land-fall Island' is 901·20 kms. from the mouth of Hoogly River. The headquarters Port Blair is about 1,255·25 kms. and 1,180·88 kms. from Calcutta and Madras respectively.

The main part of the Andaman group is composed of five large islands (Total number of islands, big and small is 265), *viz.*, North Andaman, Middle Andaman, South Andaman, Baratang and Rutland Islands generally known as the Great Andamans. To the south of the Great Andaman is the island of Little Andaman. These islands consist mostly of a mass of hills covered with dense tropical forests and separated by three straits and several creeks.

The Nicobar Islands (58 in number) from Car Nicobar in the north to Great Nicobar in the south intervene between Little Andaman and Sumatra. The southern island of Great Nicobar is about 160·9 kms. from Pilo Brasse off Achin Head of Sumatra and the northern island of Car Nicobar 120·6 kms. from Little Andaman. These islands are partly hilly and partly flat. The most important harbour in the area is Nancowrie reputed to be the finest harbour in the east.

Assamese 12; Bengali 13,853; Gujarati 105; Hindi 3,573; Kannada 71; Kashmiri 10; Malayalam 6,673; Marathi 56· Oriya 129; Punjabi 359; Tamil 5,769; Telugu 3,758; and Urdu 1,897.

Besides, Andamanese spoken by the original inhabitants who number about 1,000 and Nicobarese by less than 10,000.

AGRICULTURE

Total reporting area is about 43,000 hectares. The principle crops are rice, coconut and arecanut. The estimated area under paddy cultivation during 1970–71 is about 8,247 hectares. The average yield of rice was 1·21 tonnes per hectare. Production of paddy during 1970–71 was 10,006 tonnes. The commercial prospect of cultivation of rubber, coffee, red oil palm are considered to be good. The project plan for Palm oil has already been approved, while sanction for the rubber scheme is expected shortly. A project for cashew plantation has also been prepared with an estimated cost of Rs. 544,000. It is estimated that about 21 million dollars of foreign exchange can be earned by these islands if certain prerequisites are satisfied and certain bottleneck removed. There is considerable scope for cultivation of spices like clove, cinnamon, nutmeg, black pepper etc.

Forests: Forests cover an area of 7,468 sq. kms. These forests yield timber to the plywood and matchwood industries.

The species of timber found in the forest region are mainly Padauk, Gurgan, White Chuglam, Papita etc. The Forest Department exports approximately 20,000 cubic metres of timber to the mainland.

Animal Husbandry: There is 1 veterinary hospital, 5 dispensaries, 16 outposts, 1 key village centre with 11 key village units functioning in various parts of the islands.

Livestock: Total No. of livestock: 49,685 (1966); Poultry: 98,659.

Power Projects: A.C. Electric Supply in Port Blair was started in 1950 and since then have built a capacity of 2,200 kw at the power house in Chathan and Phoenix Bay.

Apart from Port Blair, electricity is available for the public at the following places. The installed capacity of the power house in (kw) is also given.

Wimberlygunj 72; Mayabunder 72; Diglipur 72; Rangath 72; Car Nicobar 72; Nancowrie 29·5; Biglapathy 20·5; Campbell Bay 72; and Niel Island 23.

New power stations in Kadamtala, East Bay Katchal, Havelock, Baratang, Betapur and Bakultala are to be built during the Fourth Plan.

INDUSTRIES

Type of Industry	*No. of Units*	*No. Employed*
Saw Mills	4	1,200
Construction	9	9,200
Timber	2	800
Plywood	2	1,000

There is no significant development in these Islands. The main industries are saw milling, plywood manufacture and construction. The other industries include boat building and repairing, transport workshops, printing press, timber industries and match splint factory at Port Blair. A training-cum-production centre and a wood working unit continue to function under the Cottage Industries Department at Port Blair.

Labour: No. of Unions: 39; No. of Members: 6,190; No. of Strikes: 9; Man-days Lost: 10,085; Total employed: Industry: 15,500; Agriculture: 253.

EDUCATION

No. of Schools	*No. of Pupils*	*Boys*	*Girls*
Preprimary 3	204	111	93
Jr. & Sr. Basic Schools 146*	14,008	8,149	5,859
Higher Secondary 9† ..	3,575	2,141	1,439

No. of Colleges	*No. of Students*	*Boys*	*Girls*
Arts & Sciences 1.. ..	100	68	32
Teachers' Training School 1	5	—	—

Amount spent on Education: Rs. 5,713,561.

* Junior Basic 126 and Senior Basic 20.

† Includes one Kendriya Vidyalaya.

The Territory is educationally backward and education upto higher secondary stage is free.

PUBLIC HEALTH

All treatment, medical or surgical, is completely free. For specialised treatment, patients are sent to the mainland at Government expenses.

The Gobind Ballabh Pant Hospital, Port Blair, is the largest civil hospital in this territory having 192 beds. All types of treatment, except for cancer and mental diseases, are provided here. There is also a 50 bed T.B. hospital at Port Blair looked after by a T.B. Officer and a 20-bed isolation hospital at Port Blair under the charge of a Junior Medical Officer. Besides, there are 9 civil hospitals, one primary health centre and 50 dispensaries. The hospitals are located at Port Blair, Car Nicobar, Noncowrie, Campbell Bay, Rangath, Mayabundar, Diglipur, Billiground, Long Island and Bamboofiat. The primary health centre is at Wimberlygunj in South Andaman, the total bed strength of hospitals and primary health centre is 509.

No. of Doctors : 32 ; Number of Nurses : 112 ; Amount spent on medicine and equipment : Rs. 512,469.

COMMUNICATIONS

No. of vehicles : 99 ; Length of motorable roads : 441 kms. ; No. of State Transport buses : 34 ; No. of passengers carried by State Transport daily : 10,425.

Press : "Daily Telegrams" published from Port Blair in English and Hindi ; Circulation 525.

Shipping : Two passenger-cum-cargo ships *viz. T.S.S.* "*State of Bombay*" and *M.V.* "*Andamans*" and two cargo ships *viz. M.V.* "*Nicobar*" and *M.V.* "*Shompen*" ply between mainland ports and Port Blair. The passenger vessels normally ply from Calcutta and Madras and cargo vessels mainly from Calcutta.

As far as inter-island communication is concerned, ferry vessels *viz. S.S.* "*Cholunga*", *T.S.S.* "*Yerewa*" and *M.V.* "*Onge*" ply on a regular schedule. In addition to the above vessels, smaller vessels such as *M.V.* "*Little Andaman*" and *M.V.* "*Yamuna*" carry out regular ferry service to certain islands which are not catered for by larger vessels. For transhipment of cargo between islands, cargo vessels *M.V.* "*Katchal*" and *M.V.* "*Teressa*" are also utilised.

Harbours: These islands have several very good harbours — Port Blair, Port Cornwallis, Mayabunder and Port Elphinstone.

Minor Ports : Under a Central scheme jetties for inter-island communications are being constructed. Installation of navigational aids in Andaman and Nicobar waters had been entrusted to the Director-General of Lighthouses and Lightships. Construction of a wharf at Port Blair is also being undertaken.

GENERAL

Weather : The Islands are exposed to both monsoons with North easterly gale from November to January and South westerly gale from May to October. The weather is good only from January to April and to some extent in October. The average rainfall is 3,175 mms. The temperature varies between 23°C and 31°C throughout the year.

Panchayats : 36 gram panchayats and 36 nyaya panchayats have been established in the South, Middle and North Andamans. In the Nicobar group of islands, the traditional panchayats continue to function.

Banks: A branch of the State Bank of India at Port Blair and another branch at Rangath in the Middle Andamans conduct Government treasury business. A State Co-operative Bank and a branch of the Syndicate Bank are also functioning.

Tourism: A sizeable accommodation is available for tourists in the tourist home and guest houses constructed by the Administration. A dormitory type of accommodation for 20 persons of low and middle income group is also available. Besides rest houses are built at many places.

Five Year Plan: The central Government has spent nearly Rs. 110 million, against an aggregate of Rs. 210 million over the past three Plan periods and has earmarked Rs. 140 million for the current plan, in which the main emphasis is on transport and communications and social services including education.

ANDHRA PRADESH STATE

CAPITAL: Hyderabad. **Area :** 220·36 sq. kms. **Population :** 1,796,339.

Area of the State : 276,754 sq. kms. **Population :** 43,502,708. **Density :** 157 per sq. km. **Sex Ratio :** 977 females per 1,000 males. **Literacy :** 24·56 per cent.

District	Area in sq. kms.	Population
Adilabad	16,133	1,288,348
Anantapur	19,125	2,115,321
Chittoor	15,763	2,285,536
Cuddapah	15,356	1,577,267
East Godavari	10,940	3,087,262
Guntur	11,377	2,844,488
Hyderabad	7,707	2,791,762
Karimnagar	11,824	1,963,928
Khammam	15,866	1,369,892
Krishna	8,734	2,493,574
Kurnool	18,799	1,982,090
Mahbubnagar	18,419	1,932,082
Medak	9,685	1,467,944
Nalgonda	14,242	1,817,738
Nellore	13,058	1,609,617
Nizamabad	7,969	1,313,268
Prakasam	17,620	1,919,905
Srikakulam	9,743	2,589,991
Visakhapatnam	13,739	2,805,366
Warangal	12,875	1,870,933
West Godavari	7,780	2,374,306

The headquarters of the districts are the towns of the same name except for the following districts with the headquarters in the brackets : East Godavari (Kakinada) ; Krishna (Machilipatnam) ; Medak (Sangareddy), Prakasam (Ongole), and West Godavari (Eluru).

Major Cities : with area in sq. kms. and population respectively.

Hyderabad Town Group : 220·36 — 1,796,339 ; Vijayawada : 24·14 — 317,258 ; Guntur : 30·02 — 269,991 ; Visakhapatnam : 29·14 — 355,045 Warangal : 62·16 — 207,520 . Rajahmundry : 10·59 — 165,912 ; Kakinada : 24·53 — 164,200 ; Machilipatnam : 24·86 — 112,612 ; Kurnool : 15·02 — 136,710 ; Nizamabad : 36·85 —

115,640; Tenali: 7·94—102,937; Eluru: 12·02—127,023; Nellore: 13·68 — 133,590.

No. of Villages: (1961) 27,084; **No. of Towns:** 207; **No. of Talukas:** 195.

Boundaries: The State is surrounded in the east by the Bay of Bengal; in the south by Tamil Nadu; in the south-west by Mysore; in the north-west by Maharashtra, in the north by Madhya Pradesh and in the north-east by Orissa.

State Language: Telugu is the language of the State with Urdu also spoken by a large section.

AGRICULTURE

(See main chapter on 'Agriculture').

Dairying: There are 4 cattle feed mixing plants under public sector and 2 under private sector for the supply of balanced feed.

The State Government has established 11 livestock farms for the supply of pedigreed bulls. There are also two intensive Cattle Development Projects which have shown tremendous progress in the more milk yielding strains. These two projects have not only fully supported the two Integrated Milk Projects at Vijayawada and Hyderabad, but have also made it possible to supply milk to Madras.

Piggery: The pig population is estimated to be about 650,000 contributing 7,000 tonnes of pork annually.

At present thers are 3 pig breeding stations at Muktyala, Gannavaram in Krishna district and Pedavegi in West Godavari district. Progress of pork sales showed an increasing trend year after year. During 1970-71 the sale of pork amounted to Rs. 558,994 as against Rs. 380,791 in the previous year.

Poultry: Andhra Pradesh with a poultry population of 14·75 million (1961 Census) leads all States in India. The per capita consumption of eggs in the State is 10·95 eggs. About 10 million eggs are exported annually to Calcutta, Delhi and Bombay. The contribution of poultry to the State income is estimated at Rs. 95 million per annum.

There are at present 6 Regional Poultry Demonstration and Research Farms, and 8 District Poultry Production Farms functioning in the State.

MAJOR IRRIGATION PROJECTS: (See chapter on Irrigation).

MAJOR POWER PROJECTS: (See chapter on Power Projects).

POWER DEMAND

The aggregate power demand which was 190 m.w. at the beginning of the Third Plan has risen to 258 m.w. at the end of the Third Plan and at the end of 1971-72 to 639 m.w. The total installed capacity in the State at the end of 1971-72 was 668 m.w.

INDUSTRIES

Major Industries: Cycle and cycle accessories, Steel furniture, Scientific instruments, Radios, Tape recorders, Electric measuring instruments, Automobile parts, Air conditioners, Safety razor blades, PVC Cables, Switchgear, Electrical accessories, Stainless steel vessels, Agricultural implements.

Cottage Industries: There are about 600,000 handlooms in the State that provide employment to about three million persons.

The handloom goods exported from the State are about 20 per cent of the export from the country.

The important varieties of handloom goods exported are as follows: Bleeding Madras, Madras Handkerchiefs, Lungies, Sarongs; Silks—printed, Tussar.

Industrial Development Agencies: Department of Industries, Government of Andhra Pradesh, Hyderabad; Directorate of Commerce & Export Promotion, Hyderabad; Directorate of Handlooms & Textiles, Hyderabad; Andhra Pradesh Industrial Development Corporation, B/1-174, Fateh Maidan Road, Hyderabad 500004; Andhra Pradesh Mining Corporation Ltd., 11/5/401-1, Red Hills, Hyderabad 500004; Andhra Pradesh State Agro-Industries Corporation Ltd., Intekhab Manzil, 10-2-3, A. C. Guards, Hyderabad 500004; Andhra Pradesh State Financial Corporation, 5-9-104, Chirag Ali Lane, Hyderabad 500001.

Industrial Estates: Industrial estates have been established in the following places, viz.: Visakhapatnam, Samalkot, Vijayawada, Cuddapah, Nandyal, Sanatnagar, Moula-ali, Patancheru, Vicarabad, Mahbubnagar, Suryapet, Karimnagar, Nirmal, Mancherial, Nizamsagar, Kothagudem and Warangal.

Besides the above, assisted private industrial estates are functioning at Amadalavalasa, Vijayanagaram, Rajahmundry, Eluru, Palacole, Machilipatnam, Guntur, Nellore, Chittoor, Tirupati, Proddutur, Anantapur and Adoni.

LABOUR

No. of Unions 1,318*; *No. of workers:* 18,663,042 (1961 census); *No. of strikes:* 125† (1968); *Man-days lost by strikes:* 411,160*; *Man-days lost by other reasons:* 20,335*.

Employment (December 31, 1970): *Total Employment:* Central Government 139,857; State Government 237,239; Quasi Government 135,623; Local Bodies 197,271; Private Sector 237,385; Total 947,375; No. of unemployed on the rolls of Employment Exchanges 281,063.

EDUCATION

Statistics for 1970-71 with No. of Schools and Students respectively are:

Pre-primary: 62 — 3,560; Primary: 37,349 — 3,223,292; Upper Primary: 3,000 — 771,143; Secondary: 2,994 — 994,266; Schools for special education: 101 — 5,915; Schools for oriental studies: 96 — 11,048; Teacher Training Schools: 52 — 3,036.

Colleges: (No. and enrolment respectively), Junior Colleges 181 — 29,948; Teacher Training Colleges: 13 — 3,741; Commerce College: 1 — 891; College for Physical Education 2 — 381; Medical Colleges 15 — 7,121; Colleges for Oriental Studies 44 — 5,510.

Budget Allocation: General Education: Rs. 35·20 million; Technical Education: Rs. 30 million.

Universities: Andhra Pradesh Agricultural University, Dilkush, Hyderabad 500004; Andhra University, Waltair; Osmania University, Hyderabad 500007; and Sri Venkateswara University, Tirupati.

PUBLIC HEALTH

No. of hospitals including sanatoria: 261; No. of dispensaries: 142; No. of beds in hospitals: 17,465; Beds in dispensaries: 165; Primary health centres 409; Sub-centres: 1,122; Beds in primary health centres: 2,454; Ayurvedic hospitals: 3; Ayurvedic dispensaries: 78; Unani hospitals 1; Unani dispensaries 82; Bed-strength of all Government medical institutions: 20,084; No. of doctors: 2,248; Ayurvedic Vaidyas 127; Unani Hakims: 145; No. of Medical Colleges: 15.

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* Figures for 1971. † Includes other disputes.

Leprosy Control : It is estimated that there are 600,000 cases of leprosy in the State. National Leprosy Control Programme was chalked out and the State established 16 Leprosy Subsidiary Centres, 2 Leprosy Control Units, 2 Training Centres and 148 Survey Education and Treatment centres in addition to the existing Leprosy clinics at Karwar, Hyderabad. 35 S.E.T. Centres were sanctioned under Leprosy Control Programme.

Family Planning : 170 Urban Family Planning Centres and 262 Rural Family Welfare Centres with reorganised pattern have been established in the State. The voluntary organisations and local bodies are also running family welfare centres and rendering services on Family Planning Programmes. In the year 1967-68 the State family planning organisations performed 170,796 sterilisations and 54,072 I.U.C.D. insertions respectively. During April to August 1968, 543,968 sterilisations and 83,621 I.U.C.D. insertions were done.

Communications: The following is the vehicular position as on March 31, 1971. The first figure shows the number of registered vehicles and the second the number of those in actual use respectively.

Stage carriages : 6,830 ; 5,298 ; *Goods vehicles :* 19,312 ; 15,659 ; *Taxi cabs and contract carriages :* 4,692 ; 4,278 ; *Motor cycles and scooters :* 42,082 ; 32,684 ; *Motor cars and jeeps :* 32,014 ; 27,819 ; *Others* : 8,141 ; 5,753 ; *Total motor vehicles :* 113,071 ; 96,491.

State Transport (November 1, 1971) : Buses 2,560 + 31 (Trailers) ; Other Departmental vehicles 248 ; No. of Passengers carried by State Transport as on 1-11-1971 979,000.

The total road kilometrage including National Highways and State Highways is 22,557.

PRESS (Dailies) :

Name	Town	Language	Circulation
Indian Express	Vijayawada	English	55,600
Deccan Chronicle	Secunderabad	-do-	34,546
Indian Herald	Hyderabad	-do-	5,000
Andhra Prabha	Vijayawada	Telugu	83,129
Andhra Jyoti	-do-	-do-	26,488
Andhra Patrika	-do-	-do-	38,805
Visalandhra	-do-	-do-	19,000
Andhra Bhoomi	Secunderabad	-do-	15,955
Andhra Janata	Hyderabad	-do-	5,000
Siasat	-do-	Urdu	10,075
Rahnuma-e-Deccan	-do-	-do-	13,152
Milap	-do-	-do-	8,000

Rivers : The Godavari, the Krishna, the Pennar, the Papagni, the Tungabhadra, the Musi, the Manjra, the Chitravati, the Vamsadhara and the Langulya.

ARUNACHAL PRADESH (NEFA)

(Union Territory)

CAPITAL : Indiragiri (proposed), Shillong (temporary).

Area of Territory : 83,578 sq. kms.

Population: 444,744 ; **Sex Ratio :** 907 females per 1,000 males ; **Literacy:** 9·34 per cent.

Districts	Hdqs.	Population
Kameng	Bomdila	78,316
Subansiri	Ziro	99,982
Siang	Along	114,181
Lohit	Tezu	59,507
Tirap	Khonsa	92,758

Towns and Population : Pasighat : 5,016 ; Along : 3,524; Tazu : 3,055 ; Bomdila : 2,264.

No. of Villages : 2,973.

Boundaries : The Territory is bound by Bhutan in the west, Tibet in the north-west, China in the north and north-east, Assam in the east and south, Burma in the east and south-east and Nagaland in the south-west.

Languages : Tribal dialects.

AGRICULTURE (As on March, 1970.)

Area under cultivation : 80,937 hectares ; Land Development : 20,925·91 hectares ; Area brought under Irrigation : 13,216·66 hectares ; Annual Food Production : 72,000 tonnes ; Additional increase in Food Grains : 19,000 tonnes ; Agricultural Farms : 11 ; Horticultural Nurseries : 6 ; People's Horticultural Gardens : 105 ; Veterinary Dispensaries : 41 ; Veterirary Aid Centres : 27 ; Cattle Upgrading Centres : 10 ; Goat Upgrading Unit : 1 ; Pig Upgrading Unit : 1 ; Govt. Fish Farms : 6 ; People's Fish Farms : 8 and Village Fish Ponds : 863.

Forests : Sixty per cent of total area is under forests but only 6,863·5 sq. kms. have been brought under reservation. Because of the difficult nature of terrain the survey of resources could not be completed. With the construction of more roads and an ever increasing demand for plywood, considerable progress has been achieved in bringing forest areas of the foothill belt under systematic management.

During 1970-71, 152,197·39 cu.m. of timber was extracted and a total revenue of Rs. 14,428,176 was earned.

Wild Life : The Territory has rich fauna and flora. There are wild elephants, bisons, buffaloes, tigers, leopards and various kinds of deers, bears, pigs, snakes, and wild goats. Peculiar to the Territory are the following — takin, musk deer, lesser panda, clouded leopard and mountain goat.

INDUSTRIES

There are no major or medium industries in the Territory. Regular Cottage Industries Training-cum-Production Centres have been opened at 21 places to impart training in weaving, spinning, tailoring, carpet-making, carpentry, wood-carving, cane and bamboo work, smithy, painting, sawing, soap-making and pottery. Rearing of silk and *endi* is demonstrated at sericultural farms at Pasighat, Changlang and Namsai.

Labour (1971): Total workers 254,833 (Males : 143,122 ; Females : 111,711) ; Cultivators : 213,867 (Males : 107,303 ; Females : 106,564) ; Agricultural labourers : 5,648 (Males : 3,214 ; Females : 2,434) ; Other workers : 35,318 (Males : 32,605 ; Females : 2,713).

EDUCATION

During 1969-70 — There were 571 Institutions classified as follows :—Colleges—2, Higher Secondary Schools—7, High Schools—9, Middle—47, Lower Primary—503, Nursery Schools—3.

Sex-wise enrolment at school stage during 1969-70.

	Boys	Girls	Total
Class A to V	16,519	4,021	20,540
Class VI to VIII ..	1,233	108	1,341
Class IX to XI ..	192	19	211
	17,944	4,148	22,092

Allocation for education in the Fourth Plan : Rs. 20·518 million.

PUBLIC HEALTH

Figures for 1970-71. No. of patients treated : 448,860 ; No. of Hospitals, Dispensaries, Health Units : 115 ; No. of beds 1,190 ; No. of Doctors sanctioned : 170 ; Present : 156 ; No. of Pharmacists sanctioned : 141 ; Present : 99 ; No. of Nurses sanctioned : 143 ; Present : 126 ; There was one doctor for every 2,851 persons, a nurse for every 3,529 persons and one Hospital/Dispensary for every 3,867 persons.

COMMUNICATIONS

Achievements of communication works from 1965 to 1970.

Type	Length
Constructions	
Roads	472·83 kms.
Porter tracks	421·00 kms.
Mule-paths	12·80 kms.
Improvements	
Roads	340·70 kms.
Porter tracks	12·40 kms.

GENERAL

The North-Eastern Areas (Reorganisation) Act of 1971 passed by Parliament on December 21, 1971 changed the status and name of NEFA. It became Arunachal Pradesh with the status of a Union territory. It was formally inaugurated on January 20, 1972.

Rivers : The Brahmaputra (locally known as the Siong in hill sector and the Dihang when it reaches the plains), the Dibang, the Luhit and the Subansiri.

Rainfall : The monsoon sets in from May-June and continues till the end of September. The average annual rainfall at Bomdila is 1,019 mms, Pasighat—5,792 mms, Tezu—4,071 mms, and Changlang—1,986 mms. The snow line starts from about 3,962 metres altitude and the whole of the northern region along the international boundary is under snow during the winter months.

Tribes : About 50 distinct languages and dialects are spoken. Each tribe is divided into a number of exogenous clans. As a general rule, the tribes do not intermarry. A broad list of the main tribes district-wise is given below :

Kameng District :—Monpa, Sherdukpens, Bangnis (Yanoo and Khrodeng), Aka or Hrusso, Khowa or Bugun, Miji or Dammai, Sulung, Bangro.

Subansiri District :—Tagin or Moya, Nisi/Nishang, Apatani, Bangro, Mikir, Hill Miri, Sulung.

Siang District :—Adi (it has some 20 sub-tribes, some of them are almost treated as main Tribes), Khamba, Memba, Hill Miri.

Lohit District :—Padam, Mishmi (Digaru or Taraon, Idu or Chulikata, Miji or Kaman), Singhpho, Khampti.

Tirap District :—Nocte, Singpho, Tangsa, Wancho.

Plan : The outlay for the annual plan for 1973-74 of Arunachal Pradesh will be of the order of Rs. 43·9 million, an increase of about Rs. 5 million over the current year's Plan.

The draft annual plan for 1973-74 submitted to Planning Commission provided for an outlay of Rs. 65·85 million. The commission, however, reduced the outlay by Rs. 20 million.

Communications, including roads and airstrips, are given the highest priority in the annual Plan for 1973-74. The outlay under this head is about Rs. 18·1 million. Agriculture, including animal husbandry and fishery, with an allocation of Rs. 52·68 million gets next priority followed by education with a provision of Rs. 4·8 million.

ASSAM STATE

Note: *Except for the population and areas of the State the rest of the information in this chapter covers the composite State of Assam before its reorganisation creating Mizoram on* 21-1-1972.

CAPITAL : Dispur.

Population of the Capital : N. A.

Area of the State : 78,466·28 sq. kms. ; **Population :** 14,630,422 ; **Density:** 150 per sq. km. ; **Sex Ratio :** 901 females per 1,000 males ; **Literacy :** 28·81 per cent (Males 37·74 per cent ; Females : 18·91 per cent).

Districts	Head-quarters	Area in sq. kms.	Population
Goalpara	Dubri	10,378	2,220,644
Kamrup	Gauhati	9,852	2,865,706
Darrang	Tezpur	8,725	1,733,311
Lakhimpur	North Lakhimpur	12,758	2,118,386
Nowgong	Nowgong	5,612	1,676,965
Sibsagar	Jorhat	8,943	1,831,141
Cachar	Silchar	6,961	1,711,953
Mikir Hills	Diphu	15,224	377,758
North Cachar Hills	Haflong	@	75,739
Khasi & Jaintia Hills		10	18,819

@ Area included in Mikir Hills.

Major Cities : (Over 100,000 population) : Gauhati ; Population 122,981. *Other cities* with their population ; Dibrugarh 80,344 ; Tinsukia 55,392 ; Nowgong 52,892 ; Silchar 52,612 ; Tezpur 39,915 ; Jorhat 30,486.

No. of Villages : Inhabited : 25,702 ; Un-inhabited : 1,565.

State Boundaries : The State is bound by Bhutan and Himalayan ranges in the north, Arunachal Pradesh in the north-east, Nagaland, Manipur and Burma in the east, Bangla Desh and Tripura in the south and south-west and West Bengal in the west.

AGRICULTURE

Assam is primarily an agricultural state. Agriculture sustains about 72 per cent of its population but only one third of its area is cropped.

The State is divided into the plains of Brahmaputra valley and the hill divisions. The plains are covered by most fertile alluvial soils which are suitable for growing rice, wheat, sugarcane, cotton, banana, tobacco etc. The hilly areas are suitable for cultivation of fruit crops.

Assam is also known for its colourful orchids which have a good export potential.

Rice is the most important foodgrain grown in the State and accounts for more than 72 per cent of the total gross area under crops. Other important crops are pulses, sugarcane, oilseeds, potato and jute. (Please see article on 'Agriculture' for area cultivated and production.)

Land ceiling : 75 bighas (10 hectares) per family.

Commercial Crops : Tea is the principal commercial crop in Assam which accounts for more than 7 per cent of the total net area sown in the State. Jute (5 per cent of the total sown area), sugarcane, mustard, cotton and potato are other important cash crops grown in the State.

Forests : The forest area in Assam covers about 47,900 sq. kms. or nearly 39 per cent of the State's total area.

The Assam forests can broadly be classified into four categories, viz. reserved forests (16,800 sq. kms.), protected forests (300 sq. kms.), unclassed forests (24,400 sq. kms.) and private forests. The out-turn of timber and fuel from the forests during 1967-68 was 318,000 cubic feet and 209,000 cubic respectively. The forests of Assam also yield cane, thatch, bamboo, agrawood, keitha and medicinal plants.

Dairying : The last census of livestock was taken in 1966 according to which the total livestock was 8,457,000 (Cattle : 6,104,000 ; Buffalo : 551,000 ; Goat : 1,461,000 and others 351,000).

Dairy production during 1969-70 was 162,000 tonnes milk and 8,000 tonnes meat.

Poultry : No. of poultry : 9,880,000 (1966) ; No. of eggs (1969-70) : 2,480,000.

Fisheries : The main sources of fish production in the state are the natural fisheries of the rivers and their tributaries. These number about 750. Fish landing from inland fisheries during 1970 was 26,500 tonnes.

Irrigation and Power Projects : Please see main chapter on "Irrigation and Power Projects."

INDUSTRIES

During the first decade of planning the industrial sector in the State remained practically stagnant. Towards the latter part of the Second Plan and early part of the third Plan a number of new industries have been operating in Assam, namely a bicycle factory, a spun silk mill, two cotton spinning mills, some re-rolling and fabrication units, a mixed fertiliser plant, a hard board factory, refineries at Gauhati and Digboi, Jute mill at Silghat, a sugar mill at Baruabamungaon (a co-operative enterprise) and fruit processing plant. Though outlay for development of infrastructure like power, transport etc. was substantial the total private sector investment (including tea and oil) was only Rs. 2,200 million. However, there is good scope for further development of small industries.

Later, two major projects, viz., Noonmati Refinery (Third Plan) and Namrup Fertiliser plant (spilled over to annual ad hoc plans) both in the Central sector and a third, the Gas Distribution Project (the Assam Gas Company) in the State Government sector were established. The Noonmati Refinery has led to the establishment of India Carbon Products Ltd. During the Third Plan the State Government took over from the private sector the implementation of the Chirra Cement Project which started production in 1966.

The new industries which are being set up in the Central sector are a refinery, paper mills at Nowgong and Cachar districts, a petro-chemical complex at Bongaigaon. A power tiller factory, a cigarette factory, and a cement factory at Bokajan (Mikir Hills). These in turn are expected to give an impetus to further industrialisation in the State. Some of the fields indicated by industrial development bodies are petro-chemical based products, synthetic caffeine, fruit preservation, pulp and paper, plywood industry, sugar mills, steel billets, agricultural implements, automobile tyres and PVC leather and tubes.

Other industrial establishments include (1) Asoka Paper Mills Ltd. at Jogighopa, (2) Assam Alkali Allied and Chemicals Ltd., Jogighopa and Assam Petro-Chemicals Ltd., Namrup.

Steps have been taken by the State Government for setting up a sugar mill at Cachar at a cost of Rs. 26·00 million.

Tea industry plays an important role in the State's economy contributing nearly 11 per cent towards the State income.

Industrial Estates : Industrial estates have been established at Gauhati, Nalbari, Dhekiajuli, Tinsukia, Jorhat and Badarpur. Two more estates are under construction — one each at Nowgong and Sibsagar.

Production : Trends of output of selected industries during 1969 and 1970 respectively were as follows :

Tea (million kgs.) 208·2 , 215·16 ; Sugar (million kgs.) : 5·0; 6·6; Cement (thousand tonnes) : 69·4; 54·0 ; Matches (million gross boxes) : 5·12; 5·39 ; Fertiliser (thousand tonnes) (*a*) Urea : 24·7 ; 27·5 ; (*b*) Ammonium Sulphate : 66·9 ; 60·5 ; Electricity (million kwt.) 309·5 ; — ; Commercial Plywood (million sq. metres) : 3·41 ; 3·46 ; Raw Silk (thousand kgs.) 72 ; — ; Silk Yarn (thousand kgs.) 173 ; — .

INDUSTRIAL DEVELOPMENT AGENCIES

Industrial Development Corporation, Shillong ; Small Industrial (Hills) Development Corporation, Shillong ; Assam Government Marketing Corporation, Gauhati ; Small Industries Service Institute (Government of India), Gauhati ; Credit Guarantee Association, Gauhati ; Assam Agro-industries Development Corporation, Gauhati ; The Assam State Warehousing Corporation, Shillong.

Labour: (Oct. 1971) No. of unions : 286 ; No. of strikes (1970) : 77 ; No. of lock-outs (1970) : 7 ; Man-days lost due to strikes and lock-outs : 122,025.

Workers (1969) : Working factories : 1,463 ; Employment : 80,000 ; Government and local factories : 92 ; Employment : 12,000 ; Workers in rice and flour mills : 2,293 ; Workers in plywood and saw mills : 6,187 ; Workers in match industry : 980 ; Workers in petroleum industry : 1,254 ; Workers in mines : 12,300 ; Motor transport undertakings : 1,060 ; Workers in motor transport : 2,201 ; Small industrial units : 1,130 ; Workers in small industrial units : 8,980.

Employment Exchange Statistics : The number of applicants on the live register according to job preferences at the end of 1970 : Industrial and supervisory : 765 ; Skilled and semi-skilled : 3,623 ; Clerical : 16,584 ; Educational 1,098 ; Domestic service : 840 ; Unskilled : 45,520 ; Others : 9,620 ; Total : 78,050.

No. of persons on the live register by qualifications : Technical — Engineering graduates : 386 ; Medical graduates : 16 ; Agricultural and veterinary graduates : 23. General—Post graduates : 526 ; Graduates : 4,429 ; Undergraduates : 5,734 ; Matriculates : 14,197 ; Others : 52,739.

EDUCATION (1967–68)

The following are the number of educational institutions and number of pupils respectively under each category: Pre-primary schools: 91; 3,096; Primary and Junior basic schools: 19,611; 1,411,640; Senior basic schools: 237; 45,389; Middle schools: 2,603; 275,894; High schools: 1,115; 316,040; Higher secondary schools: 69; 47,273; Sainik school: 1; 412; Agriculture school: 1; 102; Commerce schools: 24; 4,298; Music and Dancing schools: 21; 439; Nursing and Midwifery: 1; 9; Basic training schools: 27; 2,503; Non-basic training schools: 10; 898; Pre-primary Teacher training schools: 1; 31. Others — Technical Schools for Arts & Crafts: 16; 415; Survey school: 1; 235. Colleges: Colleges for General Education: 94; Students: 42,438 (1966–67); Colleges for Professional Education: 31; Students: 10,204 (1966–67).

Universities: *Assam Agricultural University,* Jorhat-785004; *Gauhati University,* Jalukbari, Gauhati-781014; *Dibrugarh University,* Dibrugarh.

Direct expenditure by State Government on education is about Rs. 141 million.

PUBLIC HEALTH (1970–71)

Hospitals (Govt.): 64; Beds: 6,474; Doctors (1969): 4,826; Nurses (1969): 1,325; Dispensaries (1968): 528; Primary health centres (1968): 100; Patients treated in hospitals and dispensaries (1968): Indoor patients: 124,600; Outdoor patients: 5,870,600; No. of Medical Colleges: 3.

COMMUNICATIONS

Vehicles of different types (1969) were: Buses: 2,406; Motor cars: 14,526; Motor cycles: 2,990; Taxi cabs: 612; Private carriers: 6,643; Public carriers: 5,825; Trailers: 3,560; Tractors: 2,830; Government vehicles: 5,065; Auto-rikshaws: 27; Others: 426; Total: 44,910.

State Transport: Operational result for 1968-69: No. of S.T. vehicles: 737; Length of nationalised routes: 2,989 kms.; Net profit: Rs. 700,000.

Roads: Though at present rather poorly connected by roads, Assam State should have a road Kilometrage of 31,428 by 1981 under its 20 Year Road Plan. The present position is: P.W.D. roads (1969-70); Black topped: 4,765 kms.; Metalled: 221 kms.; Gravelled: 12,138 kms.; Earth: 3,368 kms.; Bridle-roads: 1,318 kms.; Total: 21,810 kms.

Railways: The length of railways in Assam was 2,226 kms. in 1967-68.

Inland Waterways: Inland waterways also play an important role in the State's transport system. The length of internal waterways is more than 9,600 kms. of which 1,600 kms. is navigable by steamers and large country boats.

Air Transport: Air transport in Assam plays a vital role in the transport and communication system. The State is regularly served by the Indian Airlines and the important airports are Borjhar (Gauhati), Mohanbari (Dibrugarh), Salonibari (Tezpur), Rouriah (Jorhat) and Kumbirgram (Silchar).

Press

Leading Dailies	Town	Language	Circulation
The Assam Tribune	Gauhati	English	23,534
Assam Express	—do—	—do—	N.A.
Dainik Assam	—do—	Assamese	19,520

GENERAL

Rainfall: The normal rainfall in the plains is 2,380 mms. and that of the hills is 2,550 mms.

Rivers: The Brahmaputra and her tributaries: the Subansiri, the Bhareli, the Dhansiri, and the Manas.

Flood Protection: The turbulence of River Brahmaputra causes widespread havoc all over Assam. Some Rs. 260 million has been spent on protection works until the beginning of Fourth Plan. More is needed. The Brahmaputra Flood Control Commission has calculated that short term measures spread over 5–6 years will cost Rs. 1,000 million and long-term measures such as building dams on the Dihang and Subansiri Rs. 400 million. At present Rs. 40–Rs. 50 million are being spent every year. This is woefully inadequate.

High Court: It will be known as Gauhati High Court and will serve Meghalaya, Assam, Manipur and Tripura.

Five Year Plans: Starting its First Plan with a moderate sum of Rs. 205·1 million, Assam executed the later two Five Year Plans with actual expenditure of Rs. 544·8 million and Rs. 1,324·4 million respectively. The state expended Rs. 608 million, Rs. 863·9 million and Rs. 1,129·3 million during the three Annual Plans and the First three years of the Fourth Plan. Even after all these Plans at a total cost of Rs. 4,675·0 million Assam still lags behind with other states in economic development. There was no investment in central industrial projects in Assam during the 1st two Plans. During the Third Plan, the Centre invested Rs. 328 million and the investment upto 1968 totalled Rs. 400 million. Total outlay for Assam Fourth Plan excluding Meghalaya comes to Rs. 2,237·5 million (Hill areas Rs. 320 million). The Centre's share in this will be Rs. 1,828·0 million.

BIHAR STATE

CAPITAL: Patna. **Area :** 57·83 sq. kms. **Population :** 1,472,051.

Area of the State : 173,876 sq. kms. **Population of the State :** 56,353,369 (1971). **Density :** 324 per sq. kms. **Sex Ratio :** 953 females per 1,000 males. **Literacy:** (1961) : 19·79 per cent (Males : 30·60, females : 8·49).

Districts	Head-quarters	Area in '000 sq. kms.	Population
Patna	Patna	5·5	3,556,945
Gaya	Gaya	12·3	4,457,473
Shahabad	Arrah	11·4	3,939,034
Saran	Chapra	7·0	4,279,253
Champaran	Motihari	9·2	3,543,103
Muzaffarpur	Muzaffarpur	7·8	4,840,681
Darbhanga	Lahiriasarai	8·7	5,233,904
Monghyr	Monghyr	9·8	3,892,609
Bhagalpur	Bhagalpur	5·7	2,091,103
Saharsa	Saharsa	5·9	2,250,268
Purnea	Purnea	11·0	3,941,863
Santal Parganas	Dumka	14·1	3,186,908
Palamau	Daltonganj	12·7	1,504,350
Hazaribagh	Hazaribagh	18·1	3,020,214
Ranchi	Ranchi	18·3	2,611,445
Dhanbad	Dhanbad	3·0	1,466,417
Singhbhum	Chaibassa	13·4	2,437,799

Major Cities (over 100,000 population—1971)

Name	Area sq. kms.	Population
Bhagalpur	30·17	172,202
Bihar	19·34	100,046
Darbhanga	19·18	132,059
Gaya	28·62	179,884
Jamshedpur	63·81	356,783
Monghyr	17·50	102,474
Muzaffarpur	18·57	126,379
Patna	71·69	475,300
Ranchi	48·61	175,934

No. of Villages : 77,967.

State Boundaries : The State is bound by Mirzapur, Ghazipur, Ballia and Deoria districts of Uttar Pradesh in the north-west; Nepal in the north; Jalpaiguri, Malda, Birbhum and Purulia districts of West Bengal in the east; Mayurbhanj and Sundargarh districts of Orissa in the south and Surguja district of Madhya Pradesh in the south-west.

State Language : Hindi. Other prominent languages spoken in the State are : Urdu, Bengali and Oriya.

AGRICULTURE

(Please see chapter on "*Agriculture*" for production details.)

Ceiling on Land : In the Ceiling Bill, 1972, passed by the State Legislature a ceiling of 6·070 hectares to 18·211 hectares has been fixed for a family of five, and an additional allowance of 1/10th of the ceiling to each additional member.

The ceiling on urban property (land and building) has been fixed up at Rs. 200,000 for a family of five, allowance being made at the rate of Rs. 20,000 for each additional member upto a maximum of 10.

Dairying : Cattles 15·156 million; Buffaloes 3·654 million; Sheep 1·247 million; Goats 7·801 million; Horses and Ponies 115,878.

Production : Cow Milk 1·043 million tonnes; Buffalo Milk 789,000 tonnes; Goat Milk 83,000 tonnes.

Poultry : 10·850 million.

Poultry Development : For the development of poultry, birds of improved breeds are being introduced in the State through farms and other agencies.

Cattle Development : At present seven Government cattle breeding farms and one bull rearing farm are functioning in the State to produce improved bulls. In addition 47 key village blocks, 10 large town artificial insemination centres, 107 artificial insemination centres, 6 key village extension centres, three semen banks and two intensive cattle development blocks are functioning in the State for upgrading the local cattle, more milk yield and better draught performances.

Piggery Development : For the development of pigs, a Pig Breeding Farm, six Piggery Development Units and 28 Piggery Development Blocks are functioning. A Bacon Factory has been established at Kanke (Ranchi).

Sheep & Goat Development : Two sheep breeding farms are functioning in the State, one at Chatra and another at Gaya. Besides, 20 sheep and wool extension Centres have been established for the production of quality wool and mutton.

Fisheries : (See chapter on "Fisheries".)

Irrigation and Power Projects : See chapter on "Irrigation and Power".

INDUSTRIES (with no. of units)

Steel Plants 2, Cement Plants 7, Oil Refinery 1, Copper Smelter 1, Lead Smelter 1, Carbonisation Plant 1, Glass Works 5, Ceramic Works 4, Asbestos Plant 1, Coal Washeries 5, Locomotive factory 1, Tobacco factory 1, Jute mills 3.

Industrial Estates : Industrial estates have been set up at Patna (Patliputra Colony), Muzaffarpur, Bhagalpur, Purnea, Daltonganj, Tillaiya (Hazaribagh), Ramnagar (Champaran), Baroon (Gaya), Lakhisarai (Monghyr), Jasidih and Murliganj (Saharsa). More than 183 sheds have been built and about 110 have been occupied.

INDUSTRIAL DEVELOPMENT AGENCIES

(Please see chapter on State Corporations.)

INDUSTRIAL PROJECTS

During the Fourth Plan the Government has spent Rs. 70·00 million for large and medium industries, the break-up of which is as follows :—

State industrial projects : Rs. 13·50 million; Development of industrial areas : Rs. 17·4 million; Assistance to State Industrial Development Corporation : Rs. 25·5 million; State Financial Corporation : Rs. 10 million; and other schemes : Rs. 3·5 million.

There is an electric equipment factory under construction, with a total investment so far of Rs. 14·976 million and employing 67 persons.

The State Government has on hand two industrial projects, a spun silk mill at Bhagalpur and a modern rice mill at Bikramganj.

Small-Scale Industries : During the Fourth Plan the Government has spent Rs. 70 million on small-scale industries the break-up of which is given below.

Handlooms : Rs. 8 million ; Powerlooms : Rs. 3 million ; Small-Scale Industries : Rs. 38·5 million ; Industrial Estates and Areas Rs. 9·6 million ; Handicrafts : Rs. 4·1 million ; Sericulture : Rs. 6·8 million ; Khadi and Village Industries : Rs. 0·5 million.

LABOUR

Factories and Employment : Following is the list of some types of factories and the number of people employed. Metal Products : 356 ; 2,689 ; Machinery (except electrical) 419 ; 36,242 ; Electricals : 52 ; 4,794 ; Transport Equipment : 351 ; 18,808 ; Grain Mill Products : 6,942 ; 21,612 ; Bakery Products : 50 ; 869 ; Sugar Factories and Refineries : 81 ; 13,751 ; Confectioneries and Chocolates : 6 ; 720 ; Food Preparations : 690 ; 4,692 ; Beverages : 7 ; 216 ; Tobacco : 83 ; 3,770 ; Textiles : 45 ; 7,712 ; Footwear : 5 ; 1,963 ; Wood and Cork (except furniture) : 588 ; 4,183 ; Furniture and Fixtures : 34 ; 528 ; Paper & Paper Products : 10 ; 3,446 ; Printing, Publishing and Allied Industries ; 489 ; 5,244 ; Leather and Leather Products : 5 ; 584 ; Rubber and Rubber Products : 33 ; 202 ; Chemicals and Chemical Products : 25 ; 6,472 ; Miscellaneous Chemical Products : 94 ; 2,695 ; Products of Petroleum & Coal : 31 ; 5,313 ; Structural Clay Products : 104 ; 11,262 ; Glass and Glass Products : 11 ; 3,288 ; Pottery, China and Earthernware : 9 ; 770 ; Cement : 7 ; 4,444 ; Non-metallic Mineral Products : 327 ; 16,564 ; Basic Metal Industries—Ferrous : 45 ; 34,164 ; Non-ferrous : 17 ; 2,720. (Source : Statistical Abstract India — 1969.)

Employment in Factories : (1970) : No. of registered factories : 18,718 ; No. of working factories : 16,503 ; No. of workers : 278,177 ; No. of workers employed daily : Men 268,706 ; Women : 8,673 ; Adolescents : 699 ; Children : 99 ; Employment by State Electric Supply : 26,387 ; Employed in Mines : Coal : 197,969 ; Copper : 4,041 ; Iron Ore : 10,645 ; Lime Stone : 6,801 ; Manganese : 96 ; Mica : 10,584 ; Stone : 5,288 ; Other mines : 8,138. Total mine workers : 243,562.

Employment in Government : Central Government Establishments : 197,700 ; State Government Establishments : 256,200 ; Quasi Government Establishments : 147,700 ; Local Bodies : 145,200.

Employment Exchanges : (1971) : 23 ; Registrations : 426,027 ; No. of applicants on live register of employment exchanges : Professional, Technical and related workers : 26,238 ; Administrative, Executive and Managerial : 194 ; Clerical/Sales : 19,497 ; Agricultural, Dairy and related works : 1,454 ; Miners, Quarrymen : 1,388 ; Transport and Communication Occupation : 6,666 ; Craftsmen and Production Process workers : 68,250 ; Cooks, Chowkidars and Sweepers : 960 ; Other labourers : 120,192 ; Total : 419,668 ; No of applicants placed in employment through Employment Exchanges : 34,871.

No. of Industrial Disputes : (1970) 147 ; Workers involved : 78,278 ; Man-days lost : 746,148.

EDUCATION

The State Government provides free and compulsory primary education for all children of the age-group 6–11. There are 48,210 primary schools with 5·3 million pupils and 103,000 teachers. The number of pupils in the middle school, in the age-group of 11–14, is 1,043,000. The number of high school attending pupils is 733,569. There are estimated 2,681 secondary schools and about 1,000 specialised schools.

Universities : Bhagalpur University, Bhagalpur ; Bihar University, Muzaffarpur ; Kameshwar Singh Darbhanga University, Darbhanga ; Magadh University, Bodh Gaya ; Patna University, Patna 800005 ; Ranchi University, Ranchi and Mithila University, Darbhanga. There are 270 science and arts colleges.

(See chapter on "Education" for more particulars.)

PUBLIC HEALTH (Only Government Institutions.)

No. of Hospitals 62 ; Dispensaries 618 ; No. of Beds 15,590 No. of Doctors Regd. 10,953 ; in Govt. Service 3,177 No. of Nurses 4,034 ; No. of Non-Allopathic Medical Practitioners : 54,384 (Homoeopathic 28,090 ; Vaids 23,668 ; Hakims 2,626) ; No. of Medical Colleges : 9 (Govt. : 4, Private 5). Annual intake of the medical colleges : 950.

There is one Government T.B. sanatorium at Itki, two T.B. Demonstration Centres, one at Patna and the other at Darbhanga, one Government Hospital at Koilwar, three private sanatoria, two at Ranchi and one at Dehri-on-Sone (Shahabad) and 28 T.B. clinics. Total bed strength: 1,143.

There is a leprosarium at Brambay near Ranchi with a provision of 150 beds. Two leper asylums one at Gaya and the other at Deoghar with bed capacity of 150 and 100 respectively, and a subsidy centre at Monghyr with 30 beds are also functioning.

COMMUNICATIONS

Motor vehicles (1970-71) : Motor cycles and scooters 22,436 ; Auto rickshaws and tempo 155 ; Jeeps and cars 25,568 ; Taxicabs : 3,009 ; Buses 3,910 ; Trucks : 16,237 ; Tractors 2,670 ; Trailors : 2,007 ; Other vehicles : 85 ; Total : 76,147.

Roads (surfaced) : 14,210.

No. of State Transport buses : 1,164 (1966).

Road transport serves 14 district, 3 in north Bihar and 4 in south Bihar.

PRESS

Leading dailies	Town	Language	Circulation
Indian Nation ..	Patna	English	48,003
Aryavarta ..	—do.—	Hindi	82,108
Searchlight ..	—do.—	English	18,371
Pradeep ..	—do.—	Hindi	19,477

GENERAL

Bihar ranks first in the field of mineral resources and mineral production in India. It shares about 28·8 per cent of total produced amounting to Rs. 1,284 million. Almost the entire production of copper ore (100 per cent), kyanite (90·4 per cent) and apatite (58·2 per cent) in the country is from Chota Nagpur region of this State. It accounts for 37·2 per cent of the bauxite, 34·5 per cent of fire clay, 44·2 per cent of coal, 9·2 per cent of China clay (crude) and 14·2 per cent of iron in India.

There are 21 coal fields in the State of which the best metallurgical coal lies in Jharia field estimated to be of 3,017 million tonnes.

The mica belt which has a large supply of high quality block mica extends for about 145 kms. in length with the width of 25 kms. starting from Gaya in the west running upto Bhagalpur district in the east through Hazaribagh and Monghyr districts.

The sole producer of copper is Singhbhum district. This belt extends for about 130 kms. from Duarpuram in the west to Bahragora in the east.

Bauxite and aluminium are located in Ranchi and Palamau districts. apatite and kyanite are located in Singhbhum.

Chota Nagpur also contains rich deposits of atomic minerals such as chromite, manganese, asbestos, barytes, dolomite, felspar, quartz, graphite, ochre, phosphorites, soap stones etc.

There are numerous hot springs throughout the State in which rich mineral water is found.

Important Rivers : The Ganga, the Gandak, the Kosi, the Sone, the Barakar, the Damodar, the Koel, the Baghmati and the Subarnarekha.

CHANDIGARH

(Union Territory)

AREA: 114·48 sq. kms. **Population :** 256,979. **Density :** 2,254 per sq. kms. **Sex Ratio :** 749 females per 1,000 males. **Literacy :** 61·24 per cent.

Area of Chandigarh City : 31·67 sq. kms. **Population of Chandigarh City :** 233,004. **Sex Ratio :** 755 females to 1,000 males.

Early in 1948 it was decided to build a new capital for the Punjab at a sight about 388 kms. north of Delhi. This afforded an ideal opportunity to town planners and architects. A team of experts planned the city under the overall guidance and direction of Charles Edouard Jeannert, the French architect popularly known as 'le Corbousier' (meaning 'A man with a crow's eye').

The city was inaugurated as the capital of the Punjab by President Dr. Rajendra Prasad on October 7, 1953.

FORMATION

On November 1, 1966 the Punjab was divided into three units, Punjab, Haryana and Chandigarh. Punjab and Haryana are separate States, while Chandigarh remains a Union Territory. Following is the text of the official announcement of the Central Cabinet on June 9, 1966: "Chandigarh Capital Project, which does not form part of either of the two regions (Punjab and Haryana) shall be constituted into a Union Territory. The Central Government will also acquire powers to give directions to the Governments of the two States to regulate land use in the surrounding areas declared as "controlled areas". Chandigarh will continue to be the capital of both the States of Punjab and Haryana". On November 1, 1966 the Union Territory of Chandigarh came into being in accordance with the Constitution (18th Amendment) Act providing for the linguistic re-organisation of the Punjab.

Subsequent to this the Central Cabinet announced a decision on January 29, 1970 providing for the transfer of the capital project area of Chandigarh to the Punjab within the next five years. Pending the construction of a new capital by Haryana, Chandigarh will remain a Union Territory.

Administration : Union Territory of Chandigarh is administered by a Chief Commissioner. The Chief Commissioner has been vested with powers of the State Government in respect of laws in force in the Territory and with financial powers analogous to those exercised by the other administrators of Union Territories. It has one member in the Lok Sabha.

EDUCATION

During 1972-73 there were 44 primary, 20 middle and 26 high/higher secondary schools. The enrolment for the year 1972-73 was as follows: Primary stage 30,500, Middle stage 13,100, Secondary stage 7,100.

DADRA AND NAGAR HAVELI

(Union Territory)

HEADQUARTERS : Silvassa.

Area of the Territory : 489 sq. kms. **Population of the Territory :** 74,170 (36,964 Males, 37,206 Females.) **Sex Ratio :** 1,007 females per 1,000 males. **Density :** 152 per sq. km. **Literacy :** 14·86 per cent.

Districts : Dadra and Nagar Haveli. **Major Cities :** None. **No. of villages :** 72.

State Boundaries : This Territory is surrounded in east, north and west by talukas of Valsad district (Gujarat State) and Thana district (Maharashtra State) in the south.

State Languages : Gujarati, Varli, Marathi, [Dhodia, Konkani, Hindi.

AGRICULTURE

The major food crop is paddy. During kharif, 1972-73, 1,625 hectares of land had been put under improved seed of paddy and 912 hectares under high yielding varieties.

During the Rabi season for the year 1971-72, 72 hectares were covered under wheat, 31 hectares under high yielding varieties and 41 hectares under improved varieties.

An additional area of 57 hectares was brought under fruit crops like Mango, Guava, Chikoo etc. 1,132 fruit grafts were distributed at 50 per cent subsidy rate to Adivasis during 1971-72.

Waste Lands : 2,626 hectares.

Soil Conservation : During 1971-72 terracing of 123 hectares was undertaken while the target for 1972-73 was fixed at 200 hectares.

Forests : The total forest area is 21,158·42 hectares i.e. about 43 per cent of total area of the Territory spread over 60 villages.

Animal Husbandry, Poultry and Dairying : One veterinary dispensary and two veterinary aid centres gave free treatment to 4,141 animals during 1971-72.

During 1971-72 three cultivators were granted loan amounting to Rs. 6,300 for Dairy Development. Two cultivators were granted loan amounting Rs. 3,000 for poultry development.

One poultry breeding centre at Silvassa is established. 34,000 eggs were collected, and 33,532 eggs were sold. Birds sold for the table numbered 329. During the year 1971-72 four private poultry farms had been established with 515, 350, 215 and 115 birds of crossline breed. With a view to improving local breed of cattle, a premium bull centre with two premium bulls of medium type 'Kankreji' are maintained. Milk yield of Government Dairy Farm was 40,043 litres during 1971-72.

Irrigation : The work of the lift irrigation of Tighra, Kherdi and Khadoli-Tinoda have been completed. The schemes are expected to irrigate the command area of about 32·37, 22·25 and 14·16 hectares respectively. Four check dams at Baldevi Falia (Amli), Kilavani, Dapada and Naroli have been completed. Pilot bore wells at seven sites were completed and were in execution at three places. Schemes extending irrigation facilities to Agriculture farm at Silvassa and Ashram type school at Rakholi were in progress.

Power : 13 villages out of the 72 were electrified so far and work of electrification in other 7 villages was in progress. The number of domestic connections was 1,023 industrial and commercial 68, agricultural pumpsets 72 and drinking water pumpsets 19.

INDUSTRIES

The Industrial estate at Piparia registered 11 new units as small industries for the manufacture of watch straps, tinning wires, copper coated wire, high carbon steel wire, S.S. wire, snap fasteners, rivets and steel balls, drug and cosmetic items, link clips, paper clips, insulated electric wire and cable, pharmaceutical items and cotton cloth. At present 27 units are working in the industrial estate while construction of a factory building is under progress.

Apart from this, 12 units are working outside the industrial estate. The existing units are providing employment to 543 workers.

Labour (1971-72): No. of workers (industries) 543; Agricultural workers (cultivators 25,320; labourers 5,959); Engaged in mining, livestock, forestry, fishing etc., 3,387; Engaged in house-hold industries 308; Unemployed : 39,191.

EDUCATION

There are 137 Government primary schools, 12 grant-in-aid mission schools, one recognised unaided mission school, four pre-primary schools and four high schools. The total enrolment as on 31-3-1972 in the primary schools was 8,677 pupils (5,988 boys and 2,689 girls) and in the high school 813 pupils (580 boys and 233 girls). There are 8 Government social welfare hostels including one Ashram type school at Rakholi for students belonging to scheduled castes, scheduled tribes and economically backward classes.

There are two public libraries at Silvassa and Naroli at present.

PUBLIC HEALTH

There is one hospital at Silvassa and two dispensaries at Naroli and Dudhani. The hospital (cottage) at Silvassa has provision of 25 beds. There are two primary health centres at Kilavani and Khanvel with 5 sub-centres. The construction of 4-bed infectious diseases wing had been completed.

An X-Ray unit had been installed in the hospital which also provides outdoor treatment for T.B. and Leprosy patients.

The Government of India has sanctioned one Mobile Dispensary Unit which is expected to be under operation shortly.

COMMUNICATIONS

Position of roads: 82·57 kms. black topped; 49·15 kms. water bound macadam; 22·07 kms. other metalled roads (hard muram surfaced); and 27·96 kms. other unmetalled roads (earth work). The construction of high level bridge at Rakholi was completed.

No. of vehicles: 35 (Government vehicles); Length of motorable roads: 131·70 kms.

FINANCE

During the year 1972-73, the Territory had a budget provision of Rs. 12·167 million (Plan 6·304 million and Non-Plan Rs. 5·863 million). As against the sanctioned amount, an amount of Rs. 16·863 million was proposed in the Revised Estimates for 1972-73 and an amount of Rs. 20·138 million in the Budget Estimates for 1973-74.

DELHI

(Union Territory)

AREA: 1,485 sq. kms.; **Population :** 4,065,698; **Density:** 2,723 per sq. km.; **Sex Ratio :** 802 females per 1,000 males; **Literacy :** 56·65 per cent.

Administration : Delhi is a Union Territory. It has an elected Metropolitan Council consisting of 61 members including 5 nominated by the President of India.

The Lt. Governor is the Administrator who is assisted by 4 Executive Councillors (one Chief Executive Councillor and three Executive Councillors) appointed by the President of India on the recommendation of the Union Home Ministry.

The presiding officer of the Metropolitan Council is called Chairman.

The entire Territory is covered by three Local Bodies *viz.* Delhi Municipal Corporation, New Delhi Municipal Committee and Delhi Cantonment Board.

Boundaries : Delhi is surrounded by Uttar Pradesh in the east, and by Haryana in the south, west and the north.

AGRICULTURE

Land Reforms : The Delhi Land Reforms Act, 1954 provides for the abolition of proprietary rights and conferment of ownership on all tenants and subtenants from whom compensation would be recovered and paid to owners. Over 18,000 tenants of various categories have acquired Bhumidari rights in an area of about 15,378 hectares.

The Delhi Landholders (Ceiling) Bill passed in August 1960, fixes the ceiling on land holdings at 12·15 hectares for a family of five. Leases in future have been prohibited except by small owners holding less than 3·24 hectares and persons suffering from a disability. Future tenants will have a minimum term of five years.

(Please see chapter on Agriculture for production details.)

Dairying : It is estimated that there is one milch animal for every 52 or 53 persons. The annual average milk yield of a cow and buffalo comes to 14·41 quintals and 24·49 quintals respectively.

The annual average daily production of milk is estimated at 3,602 quintals.

Poultry : According to the livestock census 1966, the total number of poultry stands at 137,398. The number of improved varieties amongst the fowls is 107,972.

INDUSTRIES

There are about 26,794 industrial units functioning in Delhi. These units produce goods worth Rs. 3,110 million, provide employment to 214,614 persons and have an investment of Rs. 1,590 million.

The main industries of Delhi are Electronics, Electrical Appliances and Accessories, Lathe Machines and Drilling Machines, Small Tools, Cycle and Cycle Parts, Paints and Varnishes, Rubber Goods, Plastic Goods, Auto Parts and Batteries, Precision Instruments, Cotton Mills, Hand and Powerloom Weaving, Imitation Jewellery, Copper and Brass Utensils, Sports Goods, Pottery and Hosiery.

Industrial Estates : Okhla Industrial Estate, located 12 kms. south of Delhi on Mathura Road, comprising of 44·5 hectares is considered to be the biggest in the country. The estate has about 122 factory sheds. More plots are being developed. In Badli Industrial Estate 7 sheds were constructed and occupied by industrialists. Agricultural implements, stainless steel utensils, hospital equipments, time pieces, auto electric cables and iron clad switches are being manufactured.

Labour : No. of workers unions in Delhi (1970) — 642 ; No. of workers unions submitting returns — 364 ; Membership of workers unions submitting returns — 359,000.

Figures in 1970-71 indicated that there were 42 industrial disputes which involved 40,697 workers resulting in the loss of 200,149 man-days. In 1969, average daily employment in all working factories which numbered 1,527, was 92,000. *N.B.* All figures are provisional.

The number of registrations on the live register of the Regional Employment Exchange, at the end of 1971, was 156,446.

EDUCATION

The number of Higher Secondary Institutions during the year 1970–71 was 514. Fourteen new Higher Secondary Schools have been opened in rural and urban areas and 6 schools have been merged with other schools during 1970–71.

The number of all types of institutions on general education at Pre-Primary, Primary, Middle and Higher Secondary Stage was 1,940 during 1970–71 and the total enrolment in these schools was 819,304 in that year.

Out of 445 Higher Secondary Schools in Delhi during 1970–71, 277 were providing instruction in science subjects at the higher secondary.

Number of Arts and Science Colleges in Delhi stood at 39 as on August 1, 1968. There were 14 colleges of engineering and technology during 1970–71.

Universities : *University of Delhi, Old Viceregal Lodge, Delhi*-7. — is a teaching and affiliating university. The medium of instruction is English and the number of students in August 1970 was : 59,210.

Jawaharlal Nehru University, Vigyan Bhavan Annexe, Maulana Azad Road, New Delhi 11. — has jurisdiction over the whole of India. It is a teaching and a research university. It has 500 students on the rolls for the undergraduate, M.A., Ph.D., and M. Phil. studies.

(For further details about the universities, see main chapter on Education.)

PUBLIC HEALTH (1971)

There are 53 hospitals, 220 dispensaries, 8 primary health centres. The total bed strength is 10,148. Birth rate, death rate and infant mortality during 1971 were 24·2, 7·1 and 62·7 respectively (per thousand).

COMMUNICATIONS

During the year 1971, the following vehicles were plying on the roads of Delhi :

Motor Cycles: 109,112; Auto Rikshaws : 10,812; Private Motor Cars : 62,452 ; Taxis : 4,105 ; Commercial Vehicles (goods) : 15,262 ; Other Public Service Vehicles : 2,339.

The Delhi Transport Corporation had 1,587 buses operating on 60 routes on April 30, 1972.

PRESS

The major dailies in Delhi with their circulation in brackets are as follows :

English : Hindustan Times (142,904) ; Hindustan Times Evening News (N.A.) ; Indian Express (94,900) ; National Herald (39,429, Lucknow & New Delhi) ; Patriot (N.A.) ; Statesman (191,039 Calcutta & New Delhi) ; Times of India (82,012).

Hindi : Hindustan (156,164) ; Nav Bharat Times (176,328) ; Vir Arjun (27,227).

Urdu : Milap (37,497) ; Pratap (32,437).

Urban Development *Delhi Development Authority :* is responsible for planning and implementing the 20-year Delhi Master Plan. Under the large scale acquisition, development and disposal of land scheme, over 4,856 hectares have been developed by the DDA for setting up new residential industrial, commercial and institutional enclaves. So far, about 20,000 residential, 4,500 industrial and about 6,000 commercial plots have been developed. Besides, under the Social Housing Scheme, over 14,337 houses/flats have been constructed and 19,000 more are sanctioned for construction in 1972-74. Under the Jhuggi/Jhonpri Removal Schemes, 56,000 plots have been provided. Under the Decongestion Programme, several roads have been widened and unauthorised occupation of public land cleared. The cleared areas have been given a face-lift by developing about 50 parks and woodlands in different areas. Three phases of the ambitious River-Front Scheme to improve the western bank of the river Jamuna are completed.

PLAN OUTLAY

The approved Fourth Plan outlay for Delhi was Rs. 1,526·5 million. The total Plan outlay in the first three years was Rs. 816·9 million and expenditure was Rs. 781 million. In the current year the Plan size was fixed at Rs. 410 million and for 1973-74 it would be Rs. 530 million.

GOA, DAMAN AND DIU

(Union Territory)

CAPITAL : Panaji ; **Urban Agglomeration Area :** 37·00 sq. kms. ; **Population :** 59,258.

Area of Territory : 3,813 sq. kms.

Population of Territory : 857,771.

Districts: Goa, Daman and Diu with Panaji as headquarters, Goa : Area 3,700 sq. kms, Population 795,120 ; Daman : Area 72 sq. kms, Population 38,739 ; Diu : Area 40 sq. kms., Population 23,9 12.

Important Towns: with their population : Panaji Urban agglomeration 59,258 ; Margao Urban agglomeration 48,593 ; Marmugao, 44,065 ; Mapuca 20,011.

Other Towns: Ponda, Pernem, Chauri, Quepem, Bicholim, Sanguem, Valpoi, Daman and Diu.

No. of Villages: 441 (Revenue villages including uninhabited villages as per 1971 census).

State Boundaries: The entire territory of Goa, Daman and Diu comprises of three districts of different land blocks.

Goa is bound in the north by the Terekhol river which separates it from Maharashtra, in the east and south by Mysore State and in west by the Arabian Sea.

Daman is bound on the north by the Bhagwan river on the east by Gujarat State, on the south by the Kalem river and on the west by the Arabian Sea.

Diu a tiny island in the Gulf of Cambay near Veraval Port, is separated from the southern extremity of the Saurashtra peninsula by a narrow channel running through a swamp.

Language : The predominant language of Goa district is Konkani and Daman & Diu is Gujarati.

AGRICULTURE

Net area sown in Goa, Daman & Diu is 128,429 ; 4,353 and 793 hectares respectively. The food crops that are commonly grown include rice, nachini and pulses. Vegetables of all types are grown as rainfed crop in Kharif and as irrigated crop in Rabi season. The main commercial fruit crops grown in Goa are coconut, cahewnut, betelnut (arecanut) and mango. The other common fruits available in this territory are pineapple, jackfruit, breadfruit, various types of citrus, papaya, and bananas.

Mangoes and pineapples are canned in Goa and exported to the other parts of the country and also abroad. Pineapples are mostly utilised for canning industry.

(See main chapter on Agriculture for details.)

Poultry Production

(Eggs by Government Poultry Farm only)

1970-71	608,166 eggs.
1971-72	719,201 eggs.

Dairy Production

(Only Government Scheme)

	Milk production	Butter	Ghee
1970-71	1,196,268 litres	8,909 kgs.	1,941 kgs.
1971-72	1,437,563 litres	19,062 kgs.	3,939 kgs.

Fisheries : During 1971 the estimated catch of marine fish amounted to 40,000 tonnes worth Rs. 53·4 million.

Goa has a coastline of about 100 kms. inland waterways about 250 kms. long and a number of small fresh water sheets covering an area of about 100 hectares. The coast is full of creeks and estuaries which provide a good shelter for fishing crafts.

Electricity : In 1965-66 bulk power for distribution in the Territory was obtained from Mysore and Maharashtra to Goa and from Gujarat to Daman and Diu. The aggregate maximum power demand in the Territory has increased from 2·4 m.w. in 1965-66 to 20·2 m.w. during 1971-72 and the units sold correspondingly increased from 5·2 million k.w.h. in 1965-66 to 80·07 million k.w.h. in 1971-72.

The Planning Commission has approved an outlay of Rs. 72·00 million for power development projects in Goa, Daman & Diu during the Fourth Plan period.

All the 13 towns and 155 villages of the territory have been electrified.

MAJOR INDUSTRIES

	Name	Place	Capacity	Cost (Rs.)	When started
1.	Chowgule & Co. Pvt. Ltd. (Pelletisation Plant)	Pale, Usgao	500,000 tonnes	27·5 million	1967
2.	Chowgule & Co. Pvt. Ltd. (Textile Mill)	Xaldem, Quepem	25,000 spindles	20 million	1970
3.	Pilsner Breweries India Ltd.	Arlem, Salcete	2·500 ml. beer	13 million	1970
4.	Goa Flour Mill (wheat products)	Chicalim	2·250 tonnes	2 million	1967
5.	Goa Steel Rolling Mill (Steel rolling)	Bicholim	1·800 tonnes	1·4 million	1966
6.	Curti Chemicals Pvt. Ltd. (Potassium permanganate)	Curti, Ponda	1·500 tonnes	2·4 million	1966
7.	Salgaoncar Industrial Gases Pvt. Ltd. (Acetylene gas/ Oxygen gas)	Cortalim	A.G. 90·00 cu. m., O.G. 1·50 cu. m.	0·98 million	1966
8.	Associated Breweries & Distilleries (Breweries & Distilleries)	Cortalim	1·5 million btls. of beer p.m. and 12,000 btls. cashew brandy p.m.	1·25 million	1970

MAJOR INDUSTRIES — (*Contd.*)

Name	Place	Capacity	Cost (R .)	When started
9. Medowell & Co. Ltd. (Indian made foreign liquors)	Betora	0·750 mill. lts.	2·5 million	1970
10. Indian Hume Pipes & Co. Ltd. (R.C.C. pipes & poles)	Old Goa	N.A.	N.A.	The factory is being set up.
11. Ciba of India Ltd., (Pesticides & Formulations)	Cortalim, Ilas	1,296 tonnes of pesticides & 1,986 tonnes of formulations	28·00 million	1972

Industrial Development : Since liberation till 31-3-1972 over 962 small scale industrial units manufacturing varieties of industrial products have been registered with the Department of Industries.

In the large and medium scale sector 25 major projects have been licensed or letters of intent have been issued, some of them which have started include a textile mill, a pelletization plant, a brewery, a steel re-rolling mill, a flour mill, potassium permanganate, pesticides and formulations etc.

Industrial Estates (Names of Govt. Estates): 1. Corlim Industrial Estate, Corlim (Goa). 2. Margao Industrial Estate, St. Jose de Areal, Margao. There are two more industrial estates which are being constructed namely, Sancete Industrial Estate, Sancoale-Salcote, Marmugao and Daman Industrial Estate, Daman.

Cottage and Small Scale Industries : There are over 962 small scale industrial units registered with the Directorate of Industries.

These can be mainly classified as (number of units in 1972 within brackets): Canning industries (9); Workshops and bargerepair (134); Cashew processing (8); Printing press and stationery (51); forest products (68); Clay & ceramics (14); Rubber and rubber products (15).

Besides the above, a number of industries such as units manufacturing carbon paper, typewriter ribbons, pesticides, fountain pens, automobile batteries, polythene bags, drinking straws, pharmaceuticals and cosmetic items, sodium silicate, acrylic sheets, spectacle frames, nylon fishing nets, zip fasteners, manganese dioxide, P.V.C. footwear, corrugated board containers, bi-focal lenses, etc. have come up. It is estimated that the small scale sector has now an employment capacity of over 9,370 persons.

Industrial Development Agencies :

1. Small Industries Service Institute, Miranda Building, Margao.
2. Maharashtra Small Scale Industries Development Corporation, Margao.
3. Maharashtra State Financial Corporation, Panaji (with branches at Margao and Daman).

Labour : No. of Unions : 42 ; No. of Workers : 5,736 ; No. of Strikes : From 1st January 1970 to 31st July 1971 — 10 approximately. Man-days lost : 9,788.

EDUCATION (1972-73)

No. of Schools		No. of pupils	Boys	Girls
Primary*	1,047	101,704	56,916	44,788
Middle*	365	42,306	25,287	17,017
Secondary*	193	31,507	19,376	12,131

* Figures are for 1971-72.

No. of Colleges	No. of Students	Boys	Girls
Arts & Science 5	4,536	2,862	1,674
Others 7	1,562	204	1,766
University	No. of Students	Men	Women
Post Graduates Centre, Panaji	174	115	59

The old Goa Medical School was upgraded into a medical college providing facilities for M.B.B.S. course since June 1963. The School of Pharmacy was also upgraded into a Pharmacy College leading to degree of B. Pharm. since June 1963.

One Polytechnic and two Primary Teachers' Training Colleges/Schools are functioning in the Territory. One Food Craft Centre has also started functioning at Alto de Porvorim, Bardez Taluka.

Education is made free in this Territory upto Standard VIII.

PUBLIC HEALTH (1972-73)

No. of Hospitals : Private including Nursing Homes 39 ; Government 25.

No. of beds : 2,064 (Govt.), 585 (Private) ;No. of doctors: 619 ; No. of nurses : 559 ; No. of Non-Allopathic Medical Practitioners : 55 ; No. of Medical College : 1 ; Amount spent on medicine : Rs. 1,027,388·01 (1970-71).

COMMUNICATIONS (As on March 31, 1970).

No. of Vehicles : 19,440. No. of State Transport buses : 789.

Length of Motorable Roads : Goa 1,421·107 kms. Daman 72·62 kms. Diu 21·182 kms.

There is a direct train service between Vasco-da-Gama and Poona.

Mormugao, the chief port described as the "Gateway of Goa", is one of the major harbours on the west coast of India. It permits ocean-going vessels of various sizes from all parts of the world, but cargo ships mainly from Japan, America and Europe call at the port. Coastal steamer services operate between Bombay and Panaji and Bombay and Mormugao.

Goa is criss-crossed by as many as half a dozen rivers and rivulets, and internal waterways are being developed fully for transport of men and goods.

Ferries: Panaji-Betim (over Mandovi); Agacaim-Cortalim (over Zuari); Panaji-Aldona (over Mandovi); Dona Paula-Mormugao (over Zuari).

A bridge across the Diu creek at Tad, about three miles from Diu, which links Diu with the mainland of India has been constructed. Construction of the major bridge over Mandovi linking Panaji to Betim is complete and lies on the West Coast Highway.

The West Coast Highway, passing through this territory is about 140 kms.

Road transport services between Panaji and Belgaum *via* Anmod, to and from Sawantwadi *via* Doddamarg and between Betim and Poona and between Hubli and Panaji have also been introduced. Additional bus services introduced between Goa, Maharashtra and Mysore are from Sawantwadi to Margao, Sawantwadi to Vasco-da-Gama, Hubli to Margao, Sadashivgad to Panaji, Mormugao Harbour and Mapuca, Belgaum to Mapuca, Bombay to Betim and Belgaum to Margao.

Post and Telegraph Facilities: At present there are 145 post offices in Goa out of which, 56 are provided with telegraph facilities. All towns with more than 2,000 population are proposed to be covered with one post office each. There are 12 telephone exchanges with total equipped capacity of 3,200 lines. There are 32 Public Call Offices.

PRESS

Leading Dailies :

Name	Town	Language
Navhind Times	Panaji	English
Navprabha	Panaji	Marathi
Gomantak	Panaji	Marathi
Rashtramat	Margao	Marathi
O Heraldo	Panaji	Portuguese/ English
Uzvadd	Panaji	Roman Konkani/ English
Goa Monitor	Panaji	English

GENERAL

Administration : The Administrator of the Territory is a Lt. Governor, appointed by the President. He is advised by the Ministry responsible to the members of Legislative Assembly of the Territory. As the Territory comprises of three land blocks separated from each other by a distance of over 480 kilometres, separate collectors have been appointed at Goa and Daman and a Civil Administrator at Diu.

Village Panchayats : The entire rural area in the Territory is covered by Village Panchayats, numbering 188.

Housing : The Goa, Daman and Diu Housing Board was constituted on March 20, 1969. The Board has framed plans for taking schemes like Land Acquisition and Development, Low Income Group Housing, Middle Income Group Housing, Slum Clearance and Subsidised Industrial Housing, total outlay being Rs. 8·5 million for the Fourth Plan and Rs. 60·0 million proposed for the Fifth Plan.

Rivers: The Mandovi, the Zuari, the Terekhol, the Kolval, the Sal, the Baga, the Shinkeri, the Talpan and the Galjibag.

Historic and Religious Places : In Old Goa, about eleven kms. from Panaji, there are several convents, the most important among them being the Basilica of Bom Jesus, popularly known as the Church of St. Francis Xavier. The body of Goa's patron saint, of St. Francis Xavier is kept there. The exposition of the body of St. Francis Xavier was held at Bom Jesus Basilica in December 1964. Not far from this Church are the Cathedral Se Convent built between 1562 and 1619, and the Convent of St. Francis Assisi the Church of which was consecrated in 1603. At Pilar, about 13 kms. from Panaji, is located the noted Pilar Seminary.

Goa is well-known for its famous Hindu temples. The temple Saptakoteshwar, the family deity of the ancient Kadamba rulers of Gomantaka is situated at Narve (Bicholi). Noted among the temples from Ponda taluka are Mangesh at Priyol, Shanta Durga at Kavel, Mahalakshmi and Nagesh at Bandode, Mahalsa at Mhaddol, Gopal Ganapati at Farmagudi (Bandode), Kamakshi at Shircda and Mallikarjuna in Kankon.

Historic Dates : Occupation of Goa by Afonso de Albuquerque 1510 ; Occupation of Diu by Portuguese 1535 ; Establishment of Inquisition in Goa 1560 ; Occupation of Daman by Portuguese 1559 ; Naval Treaty between Shivaji, founder of the Maratha Empire, and the Portuguese December 11, 1667 ; Maratha war with Portuguese for conquest of Bassein 1737-1739; Proclamation of the Portuguese Republic December 5, 1910 ; Beginning of Salazarian dictatorship May 28, 1926 ; First Satyagraha campaign for Goan liberation June 18, 1946 ; Liberation of Nagar Haveli August, 1954 ; passage of the Hague Court regarding Portuguese right of Liberation from Daman to Nagar Haveli April 12, 1960 ; Liberation of Goa and appointment of Military Governor December 19, 1961 ; Installation of Civil administration June 8, 1962 ; First democratic elections and adult franchise December 9, 1963 ; Installation of the first popular Ministry December 20, 1963 ; Commissioning of I.N.S. "Gomantak", the first Indian Naval Shore establishment in Goa March 7, 1964 ; Opinion Poll January 16, 1967 ; New Ministry March 23, 1972.

Annual Plan : Goa's Fourth Plan outlay is of the order of Rs. 395 million. Expenditure during 1970-71 was Rs. 66·7 million while the anticipated expenditure during 1971-72 was Rs. 81·5 million.

The outlay for the Annual Plan 1972-73 is Rs. 86·8 million.

The distribution of the outlay (in Rs. million) in the Annual Plan for 1972-73 under major heads of development is : agricultural programmes 17·63 ; co-operation and community development 5·27 ; irrigation and power 20·80 ; industry and mining 2·64 ; transport and communications 9·57 ; social services 30·09 ; and miscellaneous 1·38.

GUJARAT STATE

CAPITAL : Gandhinagar; **Area :** 700 sq. kms.; **Population :** 24,049.

Area of the State : 187,091 sq. kms.; **Population :** 26·661 million. **Density :** 136 per sq. km. **Sex Ratio :** 936 females per 1,000 males. **Literacy :** 44·53 per cent.

Districts	Headquarters	Area sq. kms.	Population
Ahmedabad	Ahmedabad	8,700	2,905,233
Vadodara	Vadodara	7,800	1,978,850
Banaskantha	Palanpur	12,700	1,265,257
Bharuch	Bharuch	9,000	1,106,087
Mehsana	Mehsana	9,000	2,091,907
Panch Mahals	Godhra	8,900	1,846,452
Surat	Surat	7,700	1,782,482
The Dangs	Ahwa	1,700	94,241
Sabarkantha	Himatnagar	7,400	1,186,783
Jamnagar	Jamnagar	14,100	1,111,376
Bhavnagar	Bhavnagar	11,200	1,423,058
Amreli	Amreli	6,800	847,908
Junagadh	Junagadh	10,600	1,655,618
Kutch	Bhuj	45,600	849,245
Rajkot	Rajkot	11,200	1,623,418
Surendranagar	Surendranagar	10,500	845,860
Gandhinagar	Gandhinagar	700	200,581
Kheda	Kheda	7,200	2,444,323
Valsad	Valsad	5,200	1,428,507

Major Cities: With population over 100,000 and area in sq. kms. Ahmedabad 1,588,378, 92·98; Surat 471,815, 8·26; Vadodara 467,422, 25·17; Rajkot 300,152, 36·26; Bhavnagar 226,072, 23·33; Jamnagar 214,853, 14·42; Nadiad 108,268, 28·28.

No. of Villages : 18,854; **No. of Talukas :** 182; **No. of Towns :** 217.

State Boundaries : The State is bound by Jalor, Sirohi, Udaipur, Dungarpur and Banswara districts of Rajasthan in the north and north-east, Jhabua district of Madhya Pradesh, Dhulia and Nasik districts of Maharashtra in the east, Thana district of Maharashtra in the south, Arabian Sea in the west and Pakistan in the north-west.

State Language : Gujarati is the language of administration, law courts and university, and Hindi for communication with the Union Government.

AGRICULTURE

In 1970-71, Gujarat had a record farm production of 4·4 million tonnes. However, in 1972-73, foodgrain production was expected to be 1·93 million tonnes only due to the failure of the monsoon. The total cropped area was about 10·42 million hectares. (Details in the chapter on 'Agriculture'.)

Forests : 1,626,400 hectares.

Dairying : (1970)

The location of milk plants with their installed capacity and daily production in litres respectively were :

Ahmedabad : 275,000; 55,000; Anand†: 200,000; 135,140; Vadodara : 35,000; 17,640; Bhavnagar : 6,000; 590; Jamnagar : 10,000; 1,400; Junagadh@ : 2,000; —; Mehsana† : 100,000; 36,360; Rajkot† : 37,500; 12,860; Surendranagar : 6,000; 740.

Training : The centre at Anand imparts training in dairying.

Fisheries : Gujarat State has a span of 120,000 sq. kms. of ocean area spread over inshore and offshore regions available for fishing. Fish production is expected to increase to 200,000 tonnes by the end of the Fourth Plan. Total No. of fishermen in Gujarat is about 250,000 out of which 39,000 are active. (Please see chapter on 'Fisheries' also.)

Major Irrigation and Power Projects. Please see main chapter on 'Irrigation and Power Projects'.

INDUSTRIES

The major industries of the State are : Textile including ginning and pressing of cotton, general and electrical engineering, vegetable oils, chemicals (including salt), soda ash and cement.

Particulars regarding number of working factories and average number of workers employed therein daily respectively under each category are as follows :—

Textile : 847; 186,349; Food except beverages : 658; 30,988; Tobacco : 253; 7,405; Non-metallic mineral products : 510; 30,336; Processes allied to agriculture : 428; 39,093; Machinery except electrical : 641; 30,886; Transport equipment : 193; 15,762; Others : 1,667; 74, 501.

Production data of some of the industries are as follows (1970) : Hydrogenated Oil : 46,254 tonnes; Cement : 1,619,000 tonnes; Soda Ash : 412,000 tonnes; Caustic Soda : 28,201 tonnes; Sugar : 98,898 tonnes; Sulphuric Acid : 100,207 tonnes; Cotton Yarn : 163,214 tonnes; Cotton Cloth : 1,304,125 million metres; Super-phosphate : 56,104 tonnes; Paper and Paper Board : 16,552 tonnes; Power Driven Pumps (nos.) : 71,459; Diesel Engines (nos.) : 9,213; Clocks (nos.) : 65,021; Electric Motors (nos.) : 1,312; Ceramics : 17,671 tonnes; Refractories : 14,294 tonnes; Salt : 3,335,000 tonnes; Wheat Flour : 31,261 tonnes.

Major Public Sector Undertakings : Indian Petro-Chemical Corporation; Oil & Natural Gas Commission; Hindustan Salts and Indian Oil Corporation.

New Industrial Projects : The new projects envisaged include the establishment of a heavy water project by Atomic Energy Commission at Vadodara and others like telephones, machine tools, ordinance items, tractors and D.D.T.

Small-Scale Industries: During the decade of the State's existence a number of small-scale industries have come into being. These are more than 15,000 small scale units at present (besides several thousand unregistered ones) as against 2,169 in 1961.

Industrial Estates : Gujarat Industrial Development Corporation has 61 industrial estates (including 13 set up by the industries) in the state. These are spread over 17 of the 19 districts. Forty Five estates are in urban areas, 5 in semi-urban areas, and 11 in rural areas.

INDUSTRIAL DEVELOPMENT AGENCIES

Directorate of Industries, "C" Block, Multi-storeyed Bldg., Lal Darwaja, Ahmedabad-380001.

Gujarat Industrial Development Corporation, Fadia Chambers, Ashram Rd., Ahmedabad-380009.

Gujarat State Financial Corporation, Jal Darshan, Ashram Rd., Ahmedabad-380009.

Gujarat Industrial Investment Corporation, Natraj Chambers, Ashram Rd., Ahmedabad-380009.

Gujarat Small Industries Corporation, Ambica Nivas, Ashram Rd., Ahmedabad-380009.

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† also manufacture infant food.

@ cream in kilograms.

Gujarat Agro-Industries Corporation, "Khet Udyog", Stadium Rd., Ahmedabad 380014.

Gujarat Mineral Development Corporation, Natraj Chambers, Ashram Rd., Ahmedabad-380009.

Gujarat Export Corporation, Industry House, Ashram Rd., Ahmedabad-380009.

Small Industries' Service Institute, Government of India, Dudheshwar Rd., Ahmedabad 380004.

Liaison Officer (Industry), Dhanraj Mahal, Apollo Bunder, Bombay-400001.

Liaison Officer, Gujarat Information Centre, 6, State Emporium Bldg., New Delhi-110001.

See chapter on 'State Corporations' for details.

Labour : Workers (1971) : Total No. of workers : 8,428,603 (Males : 7,054,483 ; Females : 1,374,120) ; Cultivators (Males : 3,177,005 ; Females : 447,857) ; Agricultural labour (Males : 1,228,012 ; Females : 631,066) ; Other workers (Males : 2,649,466 ; Females : 295,197) ; Non-workers : 18,258,583 (Males : 6,732,757 ; Females : 11,525,826).

Factories : No. of working factories 5,544 (1970) Employees : 464,000 ; Average daily employment in manufacturing industries : 297,000.

Employment Exchanges : During 1970-71 about 20,600 persons were placed in employment as against the total registration of 197,988.

Employees Provident Fund : No. of factories/establishments covered : 3,008 ; No. of workers covered : 21,807.

No. of industrial disputes (1969) : 110 ; No. of workers involved : 54,376 ; No. of man-days lost : 336,504 ; No. of disputes in the Public Sector Spheres : 16 ; No. of workers involved (Public Sector) : 9,285 ; No. of man-days lost (Public Sector) : 66,469.

EDUCATION

Schools	No.	Pupils
Primary	21,900	3,500,000
Secondary..	2,150	775,000
Higher Secondary ..	270	137,000
Others	3,300	150,000

Universities: *Gujarat University,* Ahmedabad 380009, No. of affiliated colleges : 136. *Gujarat Vidyapith* (National University of Gujarat), *Ahmedabad* 380014. *Maharaja Sayajirao University of Baroda,* Vadodara 390002. *No. of* students : 17,348. *Sardar Patel University,* Vallabh Vidyanagar, No. of affiliated colleges : 20. *Saurashtra University,* Rajkot 360001. No. of affiliated colleges : 42. *South Gujarat University,* Government Medical Campus, Mathura Gate, Surat 395001. No. of affiliated colleges : 30.

PUBLIC HEALTH

Programme for growth of medical facilities in the State organised institutions involves a capital outlay of Rs. 80 million in the Fourth Plan. The number of seats in medical colleges would increase to 710, and medical health centres would increase to 13,000 beds by 1973-1974. Under the Family Planning measures, 18·1per cent of total couples were protected.

COMMUNICATIONS

Nationalised Motor Transport System : No. of routes operated : 5,973 ; Average No. of passengers carried per year : 590 million ; Buses : 4,462 ; Bus stands, Stations etc. : 1,023.

Motor Vehicles : (31-3-1970) : Motor cycles : 37,190 ; Motor cars : 26,845 ; Taxi cabs : 1,134 ; Auto-Rikshaws : 4,909 ; Stage carriages : 4,301 ; Private carriers : 3,001 ; Public carriers : 11,776 ; Others : 10,465. By the end of the Fourth Plan, the figures are expected to be : Commercial vehicles—80,000 ; Passenger Cars—85,000 ; Jeeps — 15,000 ; Scooters, three wheelers, mopeds etc.—210,000, tractors 68,000 ; and Power tillers—60,000.

Length of Roads : 32,797 kilometres. A provision of Rs. 220 million was made for roads in the Fourth Plan. Besides Rs. 75 million were earmarked for construction of selected district roads. A target of 3,020 kms. of road was fixed including 2,500 kms. of village roads.

Railways : Broad Gauge : 1,134 kms. ; metre-gauge 3,381 kms. ; narrow gauge : 1,141 kms.

Ports : The traffic handled by minor and major ports in the State is expected to reach 5·5 million tonnes by the end of the Fourth Plan.

Press : Leading Dailies with their Circulation figures.

English : Times of India, Ahmedabad, 175,740 ; Indian Express, Ahmedabad, 113,102 ; Western Times, Ahmedabad (N.A.).

Gujarati : Gujaratmitra and Gujaratdarpan, Surat 39,866 ; Janasatta, Ahmedabad 50,061 ; Loksatta, Vadodara, 26,763 ; Phulchab, Rajkot, 33,769 ; Sandesh, Ahmedabad, 98,169.

GENERAL

Rivers : The Banas, the Mahi, the Sabarmati, the Shetrunji, the Tapti, the Luni, the Narmada and the Saraswati.

Minerals : Gujarat is rich in minerals like salt, limestone, manganese, gypsum, china clay, calcite, bauxite, etc. Large deposits of bauxite of very good grade are located in Saurashtra and Kutch. The reserves of bauxites in the State are of the order of 17 million tonnes. The fluorite deposit located near Chhota-Udepur in Vadodara district is one of the largest in Asia and has reserves of the order of 11·6 million tonnes. Limestone reserves in the State run into several thousand million tonnes, the best quality limestone being located in Saurashtra and Kutch. The State also has deposits of lignite, china clay and other clays, glass sand and quartz, dolomite, agate, calcite etc.

Oil and natural gas have been found in Ankleshwar, Kalol and Cambay oil fields where drilling is in progress. A refinery has been set up at Koyali in Vadodara district.

Production in 1970 : The gross value of production of certain minerals is given below :

Bauxite : Rs. 40,14,000 ; Calcite : Rs. 51,000 ; China clay : Rs. 15,56,000 ; Dolomite : Rs. 5,17,000 ; Fire clay : Rs. 4,50,000 ; Limestone : Rs. 1,09,85,000 ; Quartz and Silica : Rs. 92,000.

PLAN

The plan expenditure during the Fourth Plan period is expected to be of the order of Rs. 5367·5 million, against the approved plan outlay of Rs. 4,550 million, including the budgeted outlay of Rs. 1,272 million during 1973-74. The highest priority in the Annual Plan has been given to agriculture, irrigation and power, which together will constitute 58 per cent of the budgeted outlay.

HARYANA STATE

CAPITAL : Chandigarh.

Area of State : 44,056 sq. kms. **Population of State :** 9,971,165. **Density :** 225 per sq. km. **Sex Ratio :** 875 females per 1,000 males. **Literacy :** 26·69 per cent.

District	Hqs.	Area sq. kms.	Population
Hissar ..	Hissar	14,000	2,117,519
Rohtak ..	Rohtak ..	6,000	1,772,169
Gurgaon ..	Gurgaon ..	6,100	1,699,470
Karnal ..	Karnal ..	8,100	1,975,383
Ambala ..	Ambala ..	3,800	1,086,594
Jind	Jind ..	2,700	638,404
Mahendragarh	Narnaul ..	3,500	681,626
Sonepat* ..	Sonepat ..	—	—
Kurukshetra†	Kurukshetra	—	—
		44,000	9,971,165

Cities : With over 100,000 population. Rohtak (Area : 11.65 sq. kms) 124,783; Ambala Cantt. (Area : 36·26 sq. kms) 102,519.

No. of Towns : 65.

No. of Villages : 6,669.

State Boundaries : The State is bound by Punjab and Himachal Pradesh in the north, Uttar Pradesh and Delhi in the east, Rajasthan in the south and west.

State Language : Hindi.

AGRICULTURE

The production of foodgrains during 1971-72 was 4·14 million tonnes.

Area under forests (1971-72) : (nil). Net area sown : 3·60 million hectares. Area sown more than once : 1·44 million hectares. (Please see main Chapter on "Agriculture" for more details.)

Dairying : Haryana is famous for its cattle wealth. Haryana cows and buffaloes for milk are exported in thousands every year to metropolitan cities like Bombay, Calcutta and Madras and its bullocks for agricultural purposes throughout the country.

The Government of Haryana has made a provision of Rs. 23 million for its dairy development scheme during the Fourth Plan period.

The Haryana Dairy Development Corporation Limited has undertaken the following projects for implementation.

The Rs. 8 million milk plant at Jind with a capacity of 50,000 litres a day for the manufacture of skimmed and whole milk powder, butter and ghee has come into operation. Work on the sweetened condensed milk plant at Bhiwani at an estimated cost of Rs. 4·5 million to process 15,000 litres of milk daily is in progress. It is proposed to install a milk plant at Ambala for the supply of liquid milk to the twin cities of Ambala cantonment and city at a cost of Rs. 6·3 million with capacity ranging between 20,000 to 50,000 litres per day. The small dairy at Hissar is proposed to be expanded and a plant for the manufacture of cheese installed.

By the end of the Fourth Plan milk plants will be set up in all the districts.

The State has 164 veterinary hospitals, 121 veterinary dispensaries and 344 first aid centres. There are also 293 temporary and 100 permanent outlying dispensaries.

Irrigation : The total irrigated area in the State is 2·40 million hectares. Main irrigation schemes in the State are Jui Lift Irrigation Scheme, Indira Gandhi Lift Irrigation Scheme, Loharu Lift Irrigation Scheme, Siwani Lift Irrigation Scheme and Gurgaon canal projects. (For other projects please see Chapter on "Irrigation Projects.")

Electricity	1967–68	1970–71 (up-to 31-10-71)
No. of villages electrified	1,262	6,669
Per capita consumption of electricity (units)	57	108
No. of tubewell connections for power pumps	29,000	101,500
No. of consumers served	349,575	617,000

INDUSTRIES

There are six cotton textile mills in Haryana located at Bhiwani, Hissar, Faridabad and Rohtak. Three sugar factories at Karnal, Panipat and Kaithal are being added to the existing ones at Rohtak, Panipat and Yamunanagar. There are two paper mills at Faridabad and Yamuna Nagar and two cement factories at Surajpur and Dadri.

There is a shoe factory, five large-scale cycle assembling and cycle components units and eight rerolling mills, besides more than 4,800 units engaged in the manufacture of agricultural implements, machine tools, electric goods and bolts and nuts and other goods. There are three tractor manufacturing units, one motor cycle manufacturing unit, and one automobile tyres and tube factory. Haryana State Industrial Development Corporation has received letters of intent for a steel billet and a cigarette plant. It is also setting up a brewery and a tannery. A Factory to manufacture small cars is under progress. In all there are 8,612 small industrial units and 230 joint stock companies in the State.

Production of important industries in the State (1970-71):

Cotton textiles worth Rs. 3·178 million; Cement 499,387 tonnes; Paper 43,395 tonnes; Sugar : 83,459 tonnes; Cycles 468,349; Sewing machines 4,549; Agricultural implements and Machine tools worth Rs. 127·68 million; Steel rerolling; 23,576 tonnes; Scientific instruments worth Rs. 50·39 million; Wood and Machinery Screw worth Rs. 3·21 million; Glass worth Rs. 40·34 million; Woollen textiles worth Rs. 51·93 million.

Labour : No. of registered Trade Unions (as on Dec. 31, 1971) : 446. They cover nearly 125,000 workers.

No. of workers in Haryana in various industries as per 1971 census : Total No. of workers : 2,643,116. ; Workers as per cent of total population : 26·51 ; Cultivators : 1,302,640 ; Agricultural labourers : 429,007 ; Other workers : 911,469 ; Non-workers : 7,328,049.

No. of registered factories : 5,200 ; No. of registered working factories (June 1970) : 2,000 ; No. of workers engaged in the registered factories : 175,000.

During the last three years, the conciliation machinery handled 4,781 disputes out of which 1,584 cases were settled, 854 withdrawn, 1,103 rejected and 788 sent for arbitration.

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* The new district Sonepat came into being with effect from Jan. 14, 1973, carved out of Hissar & Rohtak districts.

† Kurukshetra was inaugurated as the tenth district of the state on 1·8 73.

EDUCATION

Schools	As on June 1972
Total No. of schools	6,505
High/Higher Secondary Schools	1,072
Middle Schools	781
Primary Schools	4,640
Teachers Training Colleges	12
Total No. of Teachers	38,602
Trained	37,547
Untrained	1,055
No. of Scholars in Recognised Schools (1970)	1,323,301

Colleges	As on 31-3-1971
Total No. of Colleges	106
Managed by Government	15
Aided Colleges	83
Arts and Science	86
Medicine	1
Education	12
Agriculture	2
Engineering	1
Physical Training	1
Veterinary Science	1
Technology	1
Dairy Science	1

Universities :

1. Haryana Agricultural University, Hissar, for research and extension education. The University follows the trimester system, as in the Land Grant Universities in the United States. The University has four constituent Colleges all of which are residential institutions. A college of Home Science and an institute of Food Science and Technology are being added.

2. Kurukshetra University, Kurukshetra, for the encouragement of research especially in Sanskrit, Prakrit, Indian Philosophy etc. It has developed into a multi-faculty institution with 32 departments.

PUBLIC HEALTH

Hospitals and Dispensaries as on 1-12-1971	288
Total No. of Beds	6,116

Family Planning :

No. of Family Planning Clinics	98
Sterilisation operations performed during the year 1971-72	76,270
IUCD insertions done	91,258

COMMUNICATIONS

Roads : (upto Oct. 1971): Metalled 10,778 kms. maintaining link with 2,965 villages.

During the year 1971-72, Haryana Roadways has recorded a net profit of Rs. 24·08 million as against Rs. 20·05 million during the year 1970-71. Fleet Strength (as on 31st Oct. 1971) 1,171; Staff Strength 5,865; No. of Routes 430; Daily kms. Operated 253,000; No. of passengers carried daily 220,500.

PRESS

Dailies	Place of Publication
Hindi:	
Haryana Nirman	Rohtak
Haryana Times	Mahendragarh
Mewat	Gurgaon
Sunehri Bharat	Gurgaon

FOURTH PLAN

The Planning Commission had fixed the State's Plan outlay at Rs. 2,250 million. The Central assistance for the Plan is Rs. 780 million.

River : The Ghaggar.

HIMACHAL PRADESH STATE

CAPITAL: Simla; **Population:** 55,326.

Area of State : 55,568 sq. kms.; **Population of State :** 3,460,434; **Density :** 62 per sq. km.; **Literacy :** 31·32 per cent; **Sex Ratio :** 974 Females per 1,000 Males.

District	Head-quarters	Area in '000 sq. kms.	Population
Chamba	Chamba	8·2	255,233
Kangra	Dharamsala	8·4	800,863
Mandi	Mandi	4·0	515,180
Kulu	Kulu	5·4	192,371
Lahul & Spiti	Kyelang	12·2	23,538
Bilaspur	Bilaspur	1·2	194,786
Simla	Simla	5·18	428,913
Sirmur	Nahan	2·8	245,083
Kinnaur	Kalpa	6·4	49,835
Solan	Solan	1·9	237,403
Hamirpur	Hamirpur	1·56	304,339
Una	Una	1·5	222,009

State Boundaries : The State is bound by Jammu and Kashmir in the north, by Punjab in the west and south-west, by Haryana in the south, Uttar Pradesh in the south-east and by Tibet in the east.

State Language : Hindi.

AGRICULTURE

The main agricultural wealth of the State consists of fruits such as apple, apricot, peach and vegetables like seed potato, ginger, tomato, peas etc. Salt is another important item, while forests yield, timber, firewood and charcoal. Forests supply the largest quantities of coniferous timber in Northern India. They are the main source of revenue. Estimated revenue for 1972-73 being Rs. 299·9 million. Seed potato is the chief cash crop. During 1971-72, 60,000 tonnes of potato is estimated to have been produced over an area of 13,770 hectares. (Pl. see also main Chapter on 'Agriculture.')

Livestock : After the merger of the hilly areas of Punjab with Himachal Pradesh in 1966 the livestock census as compared to those of 1951 provided the following picture:

	1951	1966
Cattle	1,115,000	1,891,584
Sheep	627,000	1,048,917

	1951	1966
Buffaloes	175,000	415,356
Goats	572,000	813,041
Horses, ponies, mules & donkeys	11,000	25,625
Pigs	4,000	2,869
Poultry	36,000	206,480
Other livestock	..	3,896
Total ..	2,540,000	4,407,768

Dairying : The present handling of milk per day on an average comes to 400 litres and 2,500 litres at Nahan and Mandi respectively.

The State Government has established a full-fledged dairy at Chakkar in Mandi district. This dairy plant is handling 10,000 litres of milk per day at present, which would be gradually increased to 20,000 litres. Simla town milk scheme has also been started and will be linked up with the Mandi Scheme.

Irrigation and Power Projects : The State's hydel power potential constitutes about 20 per cent of the aggregate hydro power resources of the country. The rivers Sutlej and Beas provide about 80 per cent of the total hydel power resources of the State. Almost all the hydro-electric projects in the State lend themselves to easy execution and expeditious completion. (For details see chapter on Irrigation and power schemes.)

INDUSTRIES

With the integration of the erstwhile areas of Punjab with Himachal Pradesh in 1966, the State's size doubled both in area and population. This made the State richer than before as Kangra and Kulu districts offered numerous avenues for setting up small-scale industries and development of local handicrafts.

The two major industrial ventures — the Rs. 300 million newsprint factory in the private sector and Rs. 80 million cement plant in the public sector — are to be set up soon. It is expected that the newsprint factory when commissioned will produce 200 tonnes of newsprint a day and will give employment to 10,000 persons. The cement factory will have a capacity of 600 tonnes daily.

At present two main units, the Bilaspur turpentine and rosin factory and Nahan foundry and rosin factories are earning revenue for the State. During 1971-72 the Nahan factories had produced goods worth Rs. 5·9 million. These factories are producing turpentine oil, rosin, varnish, mono-block pumps, electric metres, sugarcane crushers and several other agricultural implements. During the last four years, as many as 576 industrial units, big and small, have been set up.

The number of small-scale industrial units increased rapidly with the integration of new areas in 1966. At present, there are 4,000 such units in the State.

INDUSTRIAL DEVELOPMENT AGENCIES

1. Himachal Pradesh State Small Industries and Export Corporation Ltd., Simla 171001.
2. Himachal Pradesh Financial Corporation, The Mall, Simla 171001.
3. Mineral and Industrial Development Corporation Ltd., Kishore Bhawan, The Mall, Simla 171001.

Labour : Total No. of workers in the State (1971 census): 1,260,806 ; Workers as per cent of total population : 36·82 ; Cultivators : 902,767 ; Agricultural labourers : 53,569 ; Other workers : 304,470 ; Non-workers : 2,163,526.

Industrial Disputes (1969): No. of disputes : 1 ; No. of workers involved : 16,000 ; No. of man-days lost : 32,000.

Trade Unions (1968) : No. of unions on register : 86 ; No. of unions submitting returns : 53 ; Total membership : 11,000.

EDUCATION

Schools : (1971-72) Primary schools : Govt. 3,714 (17 non-Government) ; Middle schools : Govt. 804 (34 non-Government) ; High Schools : Govt. 308 (38 non-Government) ; Higher secondary schools : Govt. 75 (5 non-Government) ; Sanskrit institutions : Govt. 5 (3 non-Government).

Colleges : Colleges for General Education : Govt. 11 (7 non-Government).

Enrolment :

	Boys	Girls	Total
Primary Stage	239,000	144,000	396,000
Middle Stage	93,000	33,000	126,000
Secondary Stage	40,000	11,000	50,000
Colleges	11,000	3,000	14,000
B.Ed. Students	418	121	600

University : Himachal Pradesh University, Summer Hill, Simla 171005. Established : 22nd July 1970.

PUBLIC HEALTH (1971-72)

District hospitals 9 ; City hospitals 29 ; State hospital 1 ; Civil dispensaries : 154 ; Ayurvedic hospitals 2 ; Ayurvedic dispensaries 373 ; Primary Health Centres : 73.

COMMUNICATIONS (1971)

State carriers : 1,265 ; Private Buses: 82 ; Trucks (Public Carriers) : 1,560 ; Trucks (Private Carriers) : 110 ; Private Cars : 1,190 ; Taxis : 60 ; Motor Cycles/Scooters : 1,520 ; Miscellaneous : 370.

Length of Motorable Roads : (as on 31st March 1971) : Double-lane heavy vehicular roads : 1,526 kms. ; Single-lane heavy vehicular roads : 5,844 kms. ; Jeepable roads : 608 kms. ; Less than jeepable : 2,400 kms. ; Metalled and tarred roads : 2,401 kms.

Himachal Government Road Transport : Provides conducted sight-seeing tours to Mashobra-Naldera, Kufri, Fagu and Narkanda in luxury or de luxe coaches. Comfortable de luxe services run daily between Chandigarh and Simla. Regular services are available from Kalka, Ambala, Chandigarh, Manali, Rupar, Kiratpur, Bilaspur, Mandi, Dharamsala, Pathankot, Una, Rampur, Tapri, Pooh, Kalpa, Chamba etc., etc. Jeeps and station wagons are available on special hire for any place in Himachal Pradesh connected by road.

FOURTH FIVE-YEAR PLAN

Under the Rs. 1,142·15 million Fourth Plan as approved by Planning Commission, roads and transport have been given top priority with Rs. 295·70 million ; power projects come next with Rs. 154·40 million. A sum of Rs. 110·00 million has been earmarked for forests, industries, education, medical and public health, animal husbandry, panchayats, co-operation and community development have been allotted Rs. 215·90 million.

GENERAL

Rivers : The Sutlej, the Beas, the Ravi, the Chenab and the Yamuna.

Lakes : Govind Sagar, Renuka and Rewalsar.

Minerals : Himachal Pradesh is known to have rich deposits of limestone, gypsum, dolomite, barytes and pyrites. These are mainly found in Sirmur, Bilaspur, Simla, Chamba and Kangra districts.

The State produced minerals worth Rs. 1,16,011 during 1970-71.

JAMMU AND KASHMIR STATE

CAPITAL: Summer — Srinagar; Winter — Jammu.

Area of State: 222,236 sq. kms. of which 84,112 sq. kms. is occupied by Pakistan.

The State has a bi-cameral legislature.

Population of State: 4,615,632. **Sex Ratio:** 882 females per 1,000 males. **Literacy:** 18·30 per cent.

District	Area in '000 sq. kms.	Population
Anantnag	5·4	830,455
Srinagar	3·0	826,820
Baramula	7·5	775,657
Ladakh	95·9	105,001
Doda	11·7	341,858
Udhampur	4·6	339,008
Jammu	3·2	730,884
Kathua	2·7	274,165
Rajauri	4·3*	220,730
Punch	—	170,598

* Includes area of Punch district also.

The district headquarters are of the same name except for Ladakh district where the headquarter is Leh.

Religion-wise break-down of population: (1971) Muslims: 3,040,129; Hindus: 1,404,292; Christians: 7,182; Buddhists: 57,956; Jains: 1,150; Sikhs: 105,873.

Major Cities (over 100,000 population): Srinagar, Population: 403,413; Area 47·08 sq. kms; Jammu, Population: 155,338; Area 20·46 sq. kms.

Number of Villages (inhabited) 6,559 (Census 1961).

State Boundaries: The State is bound by Pakistan in the west, Afghanistan and U.S.S.R. in the north-west, China in the north, Tibet in the east and by Himachal Pradesh and Punjab in the south.

State Languages: (*a*) *Official:* Urdu.

(*b*) *Regional:* Kashmiri, Dogri, Balti, Dardi, Pahari and Ladakhi.

AGRICULTURE

Land Ceiling: 9·21 hectares.

Agriculture is the main occupation of the people. More than 80 per cent of the population depends on it. Paddy, wheat and maize are the main crops grown in the State except in Ladakh where gram is grown. Besides, jawar and bajra are also grown in some parts of the Jammu region.

The production of food grains in 1971-72 was 0·986 million tonnes and fruits (1970-71) was 0·152 million tonnes.

The Jammu & Kashmir Agrarian Reforms Bill proposes to place a ceiling on the ownership of agricultural land at 12·5 acres (5·058).

Please See main chapter on "Agriculture" for more details.

Upto the end of 1968-69 about 44,921 hectares of additional land has been brought under irrigation. The addition in foodgrains in 1969-70 was 90·9 million tonnes. Earning from agriculture contributes 30 per cent of the State income.

Forest Development: The State is rich in forests. A rich variety of pine, fir, birch, hazel, wild oak, maple and beech grow there.

These forests are a regular haunt of lovers of sport and adventure who can find ibex, muskdeer, wolf, fox, red bear, black bear, barasigha, pig etc. a variety of winged game such as duck, goose, chakor, monal pheasant, patridge and snipe are found in low forest, on swamps and banks of the lakes.

The State has a forest area of over 21,080 sq. kms. of this 7,477 sq. kms. are available for timber exploitation and the rest function chiefly as protective forests.

Food-grains imported (1969-70) Rice 38,900 tonnes; Wheat 77,900 tonnes.

Food-grains exported: 1,700 tonnes.

Animal Husbandry: A chain of 5 sheep breeding and research farms have been set up in the State. So far 75,000 sheep of exotic varieties have been evolved. The target for 1970-71 is 200,000.

Dairying: During the Fourth Plan period the Department proposes to spend about Rs. 19·0 million on various schemes and raise the milk production by 60,000 tonnes by the end of 1973-74 and per capita consumption to 124 grams per head.

Poultry: Great stress is being laid in State on poultry development. During the Third Five Year Plan, a couple of poultry development schemes were implemented. Two Central poultry farms one at Belicharana at Jammu and the other at Srinagar were also set up with about 400 layers as the basic stock. The number of layers in Belicharana has increased from 500 in 1967-68 to 2,000 in 1968-69. For the Fourth Plan the target for the two Central Farms has been fixed at 4,000 layers each. During the Fourth Plan Rs. 6·0 million have been provided to be spent on the scheme.

Fisheries Production: 6,100 tonnes.

Major Irrigation and Power Projects: Please see chapter on "Irrigation & Power Projects".

INDUSTRIES

Industry-wise distribution of factories registered under Factories Act is as under:—

Industry	No. of Units	Employment
Textiles	66	6,844
Wood	33	923
Minerals	5	841
Chemical & Chemical Products	6	406
Food	13	371
Leather & Leather Products	2	245
Others	69	2,327

Industrial Development: Out of the 25 medium and large-scale units, 19 fall in the public sector. Of these, 18 units are being administered by the two State Corporations, namely, the Jammu & Kashmir Minerals Ltd., and the Jammu & Kashmir Industries Ltd. The large-scale industrial units include: spinning mills, silk weaving factories, woollen mills, joinery mills, rosin and turpentine factory, match factory, brick and tile factory, cement factory, prestressed concrete factory, briquetting plant etc.

The leather exports of the Jammu and Kashmir Industries Ltd. have risen from Rs. 3 million in 1969-70 to more than Rs. 6 million in 1970-71.

The silk weaving factory provides direct employment to about 2,000 people and indirectly to about 40,000.

The construction of the Hindustan Machine Tool Watch Factory near Srinagar is expected to commence in 1971-72. The ancillary factory of the Indian Telephone Industries Ltd. at Srinagar has started production.

The direct export of handicrafts has shown a substantial increase from Rs. 7·5 million in 1968 to Rs. 12·5 million in 1970.

EDUCATION (1969-70)	Boys	Girls
No. of Schools (primary)	3,440	1,450
(middle)	938	280
(High & Higher Secondary) ..	364	84
No. of students (I-V classes) ..	267,000	115,000
(VI-VIII)	78,000	32,000
(IX-XI)	46,000	11,000
No. of Colleges	11	4
No. of Universities	2	—
Amount spent on Education ..	Rs. 83·250 million (1969-70)	

Jammu and Kashmir is perhaps the only State in the country where education is free and has been brought within the reach of even the poorest sections of the population.

The overall budget of the Education Department which stood at Rs. 3·349 millions in 1947-48 has gone upto about Rs. 90 millions in 1970-71.

The number of primary educational institutions has risen from 1,571 in 1947-48 to 7,346 in 1972-73. The number of middle schools has gone up from 203 in 1947-48 to 1,391 in 1970-71. On the eve of independence they were 54 high schools, the number rose to 590 in 1970-71. The number of teachers, both male and female in the primary schools has increased from 4,404 in 1960-61 to 6,479 in 1969-70. Similarly the number of teachers in middle schools has risen from 2,522 in 1960-61 to 6,136 in 1969-70. The number of teachers in the high and higher secondary schools has also increased from 3,514 to 8,578 at present.

The State has two Universities — The University of Jammu and the University of Kashmir — with 31 teaching departments and 40 affiliated colleges at the end of 1971-72. Besides, there is 1 Agricultural College, 2 Teachers Training Colleges, 1 Engineering College, 2 Polytechnics, 2 Fine Arts Colleges, 1 Commerce College, 1 Medical College and 1 Ayurvedic College.

A Sainik School was started last year at Nagrota in Jammu at a cost of Rs. 6·8 million.

The construction of a residential public school for meritorious boys at Manasbal in Kashmir has been taken in hand.

PUBLIC HEALTH (1971-72)

Main hospitals : 2 ; Special type hospitals : 8 ; Women hospital : 1 ; District hospitals : 9 ; Sub-district hospitals : 4 ; Unani/Ayurvedic hospitals : 2 ; Nursing home : 1 ; Primary Health Centres : 77 ; Sub centres : 183 ; Allopathic Dispensaries : 236 ; Ayurvedic/Unani dispensaries : 361 ; Medical Aid Centres : 64 ; Special Mobile hospitals : 6; Family Planning Centres : 79 ; Family Planning Sub-Centres : 85 ; No. of Beds in hospitals : 4,106 ; No. of Doctors : 1,498 ; Expenditure on Public Health : Rs. 59·012 million.

Per capita expenditure of 47 paise on public health in 1947 has risen to Rs. 10·75 at present.

The State has one doctor for population of 3,145 as against one doctor for a population of 32,733 in 1947 and a bed for 991 persons against 6,716 twenty-five years ago.

Number of Vehicles (1968-69): Buses 1,357 ; Trucks 3,686 ; Station Wagons, Cars and Jeeps 3,987 ; Motor Cycles and Scooters 2,188 ; Others 551. Total : 11,769.

Length of Motorable Roads : (1971) 5,607 kms.

Kashmir Division : The budget grant for road development programme in the Kashmir Division for the year 1970-71 was Rs. 15·57 million. The road length in the Valley under the Public Works Department during the year 1970-71 stands at 3,245 kms.

During the year 1971-72 the Roads and Buildings Department, will be spending Rs. 19·05 million on road development programmes.

Jammu Division : During the financial year 1970-71 the revised outlay for roads and bridges was Rs. 20·8 million. With the fulfilment of some targets the overall road length in Jammu Division ending March, 1971 is expected to be at 2,362 kms.

PRESS

Leading Dailies : (English) published from Jammu : *Excelsior, Kashmir Times.*

(Urdu) published from Jammu : *Imarat, Sandesh* and *Ujalla.*

(Urdu) published from Srinagar : *Khidmat, Aftab, Hamdard, Nayasansar, Zamindar, Chinar, Wulvar* and *Srinagar Times.*

In addition 56 weeklies are also being published from the State.

Tourism :

Greater attention has been paid by the State Government to the development of popular tourist resorts, such as Cheshmashahi, Dal Lake, Pahalgam, Kokernag, Achhabal and Gulmarg. A number of tourist reception centres, rest houses, hutments, parks and dormitories have been constructed and existing ones improved.

The State Government Transport Undertaking operates eighty-five special delux coaches along the national highway from Pathankot to Srinagar. Luxury coaches and cars are put into operation for sight-seeing trips to places of tourist interest.

The India Tourism Development Corporation has taken in hand the construction of a 40-room motel at Jammu on the National Highway to Srinagar at an estimated cost of Rs. 2·5 million.

Gulmarg, the meadow of flowers, is developing into a prominent spot for winter-sports. The State Tourism Department has streamlined the arrangements for winter sports. Skating rinks, rope tows and other necessary equipment are made available to the sportsmen.

A 100-bed Tourist Hostel is being constructed at Katra (Jammu) which is nearing completion.

Important Rivers : The Jhelum ; the Tawi ; the Sindh ; the Chenab and the Ravi.

Important Lakes : Dal Lake ; Wuller ; Manasbal and Nagin Lake.

FOURTH PLAN

The plan outlay is Rs. 1,580 million. Expenditure on plan schemes during 1969-70 was Rs. 22·80 million and anticipated expenditure during 1970-71 is estimated at Rs. 290 million. The outlay for 1971-72 of the State will be of the order of Rs. 307·9 million out of which the Central assistance will be Rs. 290 million.

KERALA STATE

CAPITAL: Trivandrum. **Area:** 44·52 sq. kms.; **Population:** 409,627.

Area of the State: 38,855 sq. kms. **Population of the State:** 21,347,375. **Density:** 549 per sq. km. **Sex Ratio:** 1,016 females per 1,000 males. **Literacy:** 60·42 per cent.

Districts	Area in sq. kms.	Population
Trivandrum	2,185·90	2,198,606
Quilon	4,732·47	2,412,821
Alleppey	1,833·83	2,125,722
Kottayam*	5,359·54	2,085,134
Ernakulam*	3,339·52	2,383,178
Trichur	2,993·70	2,128,797
Palghat	4,112·40	1,685,342
Malappuram	3,910·80	1,856,362
Kozhikode	3,711·30	2,106,249
Cannanore	5,675·28	2,365,164

* The formation of Idikki district on Jan. 26, 1972 has changed the area and population of Kottayam and Ernakulam districts. The figures furnished here are provisional.

Major Cities: (Over 100,000 population)

Name	Area in sq. kms.	Population
Cochin	82·00‡	439,066‡
Trivandrum	44·52	409,627
Calicut	30·61	333,979
Alleppey	46·62	160,166
Quilon	16·34	124,208

No. of Talukas: 57; Villages: 1,635; Municipal Towns: 29; Corporations: 3; Panchayats: 961.

State Boundaries: The State is surrounded by South Kanara, Mercara and Mysore districts of Mysore State in the north, Nilgiris, Coimbatore, Madurai, Ramanathapuram, Tirunelveli and Kanyakumari districts of Tamil Nadu in the east and south and by Arabian Sea in the west.

State Language: Malayalam.

AGRICULTURE

The per capita extent of cultivated area is 0·10 hectares (1970-71).

Food Crops: Rice, jowar, ragi, tur, sugarcane, pepper, chillis, ginger, turmeric, cardamom, arecanut, mango, citrus fruits, banana, cashewnut, tapioca, sweet potato and onion.

Main Cash Crops are coconut, cardamom, arecanut, pepper, gingelly, turmeric, ginger, sugarcane, groundnut, cashewnut, tea, coffee, rubber etc.

(For details please see chapter on Agriculture.)

No. of Plantations: Rubber: 105,932; Tea: 2,527; and Coffee: 20,689.

Animal Husbandry: During the year 1969, the State's Intensive Cattle Development Project was started at Alwaye, Mavelikara, Vaikom, Kanjirappally and a medium size one has been started at Palghat with two regional centres, one at Palghat and the other at Trichur. A bacon factory at Koothatukulam was also commissioned during 1969.

The Fourth Plan has allotted Rs. 35·35 million for the development of livestock in the State. The scheme-wise allotment is as follows:

Livestock development Rs. 14·10 million; Poultry Rs. 6·455 million; Piggery Rs. 2·9 million; Veterinary aid Rs. 3·2 million; Veterinary education and research Rs. 1·447 million and other schemes Rs. 7·238 million.

Poultry: The central hatchery at Chingannur produced and distributed 353,000 chicks and 945,600 eggs during 1971-72.

Dairying: At present there are five dairy plants in operation. The location, capacity and daily production respectively are: Calicut—6,000 litres, 7,136 litres; Palghat—6,000 litres, 4,185 litres; Trivandrum—6,000 litres, 10,000 litres; Ernakulam—10,000 litres, 5,550 litres; Kottayam—6,000 litres, 3,500 litres.

Fisheries: Please see the chapter on Fisheries.

Forests (1971): Forests occupy about 27 per cent of the area of Kerala as against 22·7 per cent of the country as a whole. These forests contain a large number of species, viz Teak, Rosewood, Ebony, Sandalwood.

The State has 106,850 hectares of man-made forests. This consists mainly of Teak (56,826 hectares), Eucalyptus (17,633 hectares), Softwood (24,768 hectares), Cashew (3,225 hectares) and miscellaneous species (4,398 hectares).

Location of forests: The main forest tract lies north to south, along the Western Ghats, forming the eastern boundary of the State.

Revenue from the forests in 1971-72 was Rs. 106·111 million; expenditure Rs. 35·783 million.

INDUSTRIES

Names of different industries and number of units as on June 30, 1969 and June 30, 1970 respectively are: Canning and preservation of Fruits and Vegetables 6 : 9; Canning and preservation of Fish and other sea foods 30 : 32; Rice and flour mills 114 : 100; Sugar 3 : 3; Oil mills 291 : 283; Tea factories 127 : 127; Cashew factories 242 : 267; Starch and other Food articles except Beverages 35 : 23; Beedi and Cigar 59 : 41; Cotton textiles 222 : 191; Knitting 13 : 12; Coir 158 : 149; Other Textiles 6 : 12; Umbrella 16 : 15; Saw mills 257 : 239; Plywood 12 : 14; Other Timber industries including Splints and Veneers 232 : 222; Paper mills 3 : 3; Paper board, Straw board and other Paper products 5 : 8; Printing and Binding 216 : 229; Rubber and rubber products including Tyre retreading 145 : 155; Artificial Manures 15 : 11; Pharmaceuticals 25 : 22; Soap 8 : 7; Other Chemicals and Matches 62 : 76; Petroleum and refineries 229 : 233; Glass 2 : 2; Pottery, China and Earthenware 9 : 9; Cement 9 : 5; Basic Metal industries 31 : 30; Metal products 95 : 93; Agricultural implements 9 : 10; General and jobbing Engineering 76 : 93; Other Machinery except Electrical machinery 24 : 25; Electrical machinery 27 : 28; Marine engines building and repairs 10 : 8; Repair of Motor vehicles 143 : 146; Manufacture of Bicycles 5 : 6; Other industries 83 : 83; (Total 3,087 : 3,110).

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‡ Combined area and population for Cochin—Ernakulam—Alwaye Town Group.

Joint Stock Companies : The number of public limited companies decreased from 347 to 345 and private limited companies increased from 81 to 712 between 1969-70 and 1970-71.

Production figures of selected industries in Kerala.

Name of Product	Unit	Production 1968	Production 1969
Sugar (Crop year Nov. to Oct.)	Tonnes	7,222	16,417
Hydrogenated oil (Vanaspati)	,,	33,735	28,377
Tea	,,	41,360^a	43,263^b
Coffee	,,	12,470*	13,574†
Yarn (Cotton)	,,	13,516	13,516
Cloth	Metres	4,200,000*	4,200,000†
Rectified spirit	Kilo litres	2,866	1,850
Sulphuric acid	Tonnes	158,070	174,740
Soap	,,	16,920	22,849
Refractories	,,	1,003	290
Whitewares (Crockery)	,,	890	582
Cement	,,	48,354	53,236

a Relates to the year 1969. *b* for the year 1970 ; * Figures are for 1969-70. † Figures relate to the year 1970-71.

Incentive for Industries : The State Government follows a progressive industrial policy. Developed land, water, power etc. are offered to intending entrepreneurs.

In the case of large industries the Government assists in obtaining licences and raw materials besides meeting 75 per cent of the cost of a project. Financial assistance is offered either directly by investment in shares or by way of loans, guarantees etc.

The Government also decided to exempt small-scale industries from sales tax to help in their further development.

Industrial Development Agencies (Please see the chapter on State Corporations).

Labour : No. of registered factories (as on 31-12-1970): 3,156 ; No. of working (Registered) factories (as on 31-12-1970) : 3,040 ; No. of working factories which submitted their annual returns for the year 1970 : 2,056 ; Average daily employment in the working factories submitting returns : 149,067 ; Total average daily employment (estimated) in all the registered working factories : (1970) : 205,174 ; No. of accidents (including fatal cases) in registered factories during the year 1970 : 2,862 ; No. of fatal accidents : 10.

No. of Workers : 280,880 ; No. of unemployed : 238,575 (Employment Exchange report) ; Total employed : 718,800 ; Employed in Industries : 295,400 ; Employed in Agriculture : 95,000 ; Employed otherwise : 332,600.

No. of registered trade unions/federations as on 31-12-1969 : 2,555. No. of Trade Unions : 2,571.

PARTICULARS OF WORK STOPPAGES DURING 1970

Industry	Total Number of Disputes	By causes					Details of work stoppages		
		Wages	Bonus	Working conditions	Retrenchment	Others	No. of workers normally employed	No. of workers affected	Total No. of man-days lost
1	2	3	4	5	6	7	8	9	10
Total	273	115	15	6	7	130	86,135	73,248	670,842
Plantations	37	17	3	1	1	15	16,890	16,735	84,549
Textiles	6	3	..	1	..	2	950	836	3,873
Coir	3	2	..	..	..	1	70	70	4,690
Saw Mills	12	10	..	..	..	2	642	640	4,214
Tiles	26	6	2	2	2	14	4,363	4,397	39,780
Cashew	1	..	..	..	..	1	896	820	820
Miscellaneous	188	77	10	2	4	95	62,324	49,750	532,916

Industry	Result				Method of termination					No. of token strikes
	Successful	Unsuccessful	Partly successful	Indefinite	Conciliation	Direct negotiation	Adjudication	Mediation	Others	
	11	12	13	14	15	16	17	18	19	20
Total	146	1	40	7	97	69	2	22	4	57
Plantations	19	..	6	..	10	11	..	4	..	10
Textiles	3	..	1	..	2	1	..	1	..	1
Coir	2	..	..	..	2	..	..	..	..	..
Saw Mills	10	..	1	1	9	3	..	..	..	..
Tiles	14	..	2	1	9	5	1	2	..	6
Cashew	..	..	..	..	..	..	..	..	..	1
Miscellaneous	98	1	30	5	65	49	1	15	4	39

EDUCATION

Particulars showing the number of students in schools run by Government and private bodies for 1971-72 are as follows:

Number of students under instruction 4·979 million; Gross Expenditure on General Education: Rs. 561·6 million.

Distribution of Institutions: High Schools (including Post Basic and Anglo-Indian Schools) 1,393; Post Basic Schools 3; Anglo-Indian High Schools 7; Upper Primary Schools (including S. B. Schools) 2,551; Senior Basic Schools 71; Anglo-Indian U.P. Schools 1; Lower Primary Schools (including Junior Basic and Anglo-Indian Schools) 6,886; Junior Basic Schools 364; Nursery Schools 138.

Professional/Special Schools: Basic Training Schools 104; Anglo-Indian Training School 1; Fine Arts Schools 2; Schools for the Handicapped 7.

Other Institutions: Hindi Training Institutes 2. Language Teachers Training Centres 6.

Universities: Kerala Farm University, Mannuthi, Trichur; University of Kerala, Trivandrum; University of Calicut, Calicut.

Colleges and other educational institutions with number of students respectively: Teachers' Training Schools: 105; —; Polytechnics: 14; 1,982; Industrial Training Institutes: 36; —; Junior Technical Schools: 21; 1,260; Arts and Science Colleges: 120; 142,697; Engineering Colleges: 6; 3,625; Medical Colleges: 4; 2,294; Ayurveda Colleges: 3; —; Agricultural Colleges: 1; 200; Veterinary College: 1; 210; Law Colleges: 3; 899; Teachers' Training Colleges: 19, 2,390; Sanskrit Colleges: 2; —; Music College: 1; —; Music Academies: 2; —; Per Capita expenditure on Education: Rs. 25·18.

PUBLIC HEALTH (Figures as on 1-1-1971)

No. of Medical and Public Health Institutions: 532; Government Hospitals: 111; Beds 17,584; Secondary Health Centre: 1; Beds 122; Primary Health Centres: 162; Beds 1,362; M. C. H. Centre: 1; Beds 20; T. B. Clinics: 20; Beds 302; Dispensaries: 236; Beds 1,120; Mobile Dental Hospital: 1; Grant-in-aid institutions: 15; Beds 1,233; Total No. of hospitals: 547. Total No. of Beds: 21,743; Out-patients treated: 20·574 million; Inpatients treated: 990,831 (Figures excluding Medical College Hospital, Trivandrum). Out-patients treated in grant-in-aid institutions: 245,428; In-patients treated in grant-in-aid institutions: 20,760.

Per Capita expenditure on health services (1970-71) Rs. 7·61.

COMMUNICATIONS (As on March 31, 1972)

Goods vehicles 13,584; Stage carriages: 6,840; Taxi cabs: 9,699; Motor Cars: 36,531; Jeeps: 5,133; Motor cycles: 16,959; Auto-rickshaws: 1,219; Tractor/Trailors: 2,439; Others: 1,305; Total: 93,709.

State Transport: (as on June 31, 1972): No. of buses: 1,590; No. of lorries: 25; Other vehicles: 67; No. of routes 1,282; Route Kilometrage: 49,211; Employees: 14,124; Earnings from passengers: Rs. 140·864 million (1971-72); No. of passengers transported per day by the State Transport: 908,918.

Roads: Total length of roads in the State as on March 1968 was 18,037 kms. of which 14,353 kms. of roads are held by agencies like Irrigation department, Electricity Board, Municipalities, Corporations and Forest departments. National Highways 448 kms.; State Highways 1,282 kms.; Major District roads 5,143 kms.; Other District roads 7,081 kms.

Railways: The total length of the railway line is 893 kms. of which 553 kms. are on the broad gauge system and 339 kms. on the metre gauge system.

PRESS*

Leading Dailies: in Malayalam with their circulation: Deepika, Kottayam 33,141; Desabhimani, Calicut 25,143; Express, Trichur 25,205; Janayugam, Quilon 20,557; Kerala Kaumudi, Trivandrum 108,287; Malayala Manorama, Kottayam 167,016; Mathrubhumi, Calicut 113,918.

GENERAL

Rivers: Most of the Kerala rivers are navigable by small boats for some kilometres beyond the tidal influence and many of the lagoons are connected by small canals. The rivers provide an extensive system of inland waterways of great commercial importance.

The longest of the rivers are the Bharatapuzha, 267 kms. and Periyar, 228 kms. long.

Other chief rivers are the Valapattanam, Chaliyar, Kadalundi, Chalakudi, Pampa, Achan Leoil and Kallada.

Fresh Water Lakes: Enamakkal, Manakkodi, Villani, Sashankotta and Vembanad.

Minerals: Thorough investigation of the State's mineral resources is yet to be made. The minerals now being exploited are china clay, quartz, lime shell and the mineral sands consisting of ilmenite, rutile, monazite, zircon and sillimanite.

Recent geological surveys have shown the presence of high quality of iron ore and bauxite in northern Kerala.

FOURTH PLAN

The total outlay for Kerala's Fourth Five-Year Plan has been fixed at Rs. 2,580 million, the State's annual plan for 1972-73 Rs. 713·417 million.

The distribution of outlay (in Rs. million) of the annual plan for 1972-73 among various sectors of development is: Agricultural programmes Rs. 111·526; co-operation and community development Rs. 27·48; irrigation and power Rs. 277·00; industry and mining Rs. 48·45; transport; and communications Rs. 44·10; social services Rs. 202·57; and miscellaneous Rs. 2·32.

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* Figures relate to 1971. Figures for 1972 are not available.

LACCADIVE, MINICOY AND AMINDIVI ISLANDS

(Union Territory)

THE Laccadive, Minicoy and Amindivi Islands are a group of coral islands lying between 8° and 12° north latitude and 71° and 74° east longitude in the Arabian sea, 320 km. off the west coast of Kerala.

Headquarters : Kavaratti island. **Area :** 3·50 sq. kms. **Total Area of the Territory :** 27·87 sq. kms. **Total Population :** 31,798 (1971 census).

Total No. of Islands : Inhabited: 10; Uninhabited: 10.

Inhabited Islands : 1961 census.

Island	Area sq. kms.	Population
Minicoy	4·53	4,138
Kalpeni	1·99	2,613
Androth	4·33	4,183
Agatti	2·80	2,411
Kavaratti	3·50	2,828
Amini	2·51	3,530
Kadmat	3·03	1,851
Kiltan	1·61	1,520
Chetlat	1·04	953
Bitra	0·10	80
Total	27·87*	24,108

* Includes area of uninhabited islands.

Administration : The islands were constituted into a Union Territory on 1-11-1956 with an Administrator.

An Advisory Council, consisting of non-official members selected from local population is constituted every year and advises the Administrator on developmental matters. An Advisory Committee associated with the Home Minister was also constituted during 1967-68.

The Judiciary of the Union Territory is under the jurisdiction of the Kerala High Court. There are now two Munsiff courts and one court of the subordinate judge for the administration of civil justice, and four sub-Magistrate's courts and one District Magistrate's Court for the administration of criminal justice in the Territory. The sessions jurisdiction is vested in Sessions Judge of Calicut in Kerala State.

AGRICULTURE

It is mainly confined to coconut cultivation. The total production of copra in the island during 1967-68 was 1,071 tonnes valued at Rs. 4·21 million. The total area under coconut cultivation is about 2,738·90 hectares. The coconut trees numbering about 653,000 yield about 20 million nuts. During the Third Plan period the Government had sold to the agriculturists 48,630 seedlings, 114 tonnes of chemical fertilisers, 2,076 agricultural implements and 21 tonnes of galvanised plain sheets at concessional rates. The Planning Commission has approved an outlay of Rs. 1·8 million for agriculture during the Fourth Plan period.

In order to diversify the agricultural base of the economy, paddy cultivation on an experimental basis has been started, in about 50 hectares in Androth and Kalpeni. Food crops like maize, rice, pulses, tapioca etc. have also been started as intercrops in coconut plantations.

Livestock and Animal Husbandry

Cattle : Males over 3 years : 77 ; Females over 3 years : 956 ; Young Stock : 384 ; Total cattle : 1,417 ; Goats : 5,435 ; Total livestock : 6,852.

Poultry : Fowls 18,095 ; Ducks : 445 ; Total Poultry : 18,540.

The total expenditure for animal husbandry schemes during the Third Plan period was Rs. 240,000. During the Third Plan a poultry farm was started on Kavaratti island. A full-fledged veterinary clinic and a dairy unit have also started functioning during the Plan.

The allotment for the Fourth Plan is Rs. 300,000. It is proposed to start three new poultry farms, five goat rearing centres, one duck farm and one more veterinary clinic during the Fourth Plan period.

Fisheries : There are now 46 mechanised boats in the islands. Out of this 28 boats were issued to fishermen on a subsidised hire purchase system. The territory has now its own workshop and boat building yard at Kavaratti.

A small unit for canning tuna fish was opened at Agatti island in 1963. Another canning unit is expected to be opened at Minicoy shortly.

An outlay of Rs. 8 million has been sanctioned for the Fourth Plan. The Fisheries Department has decided to expand the existing workshop at Kavaratti and to start new minor workshops at Agatti, Kalpeni, Kadmat and Androth during the Fourth Plan period.

Power Development : It is proposed to electrify all the islands by the end of the Fourth Five Year Plan. So far electricity has been introduced in six islands, viz. Minicoy, Amini, Kavaratti, Agatti, Androth and Kalpeni islands.

INDUSTRIES

According to 1961 census, household industries engaged 82·8 per cent of the total working population. The main industry on the islands is production of coir. The total production of coir during 1967-68 was 590 tonnes. About 800 people were trained in improved methods of coir twisting on charkhas at the Coir Training-cum-Production Centres. A handloom weaving centre has started functioning at Chetlat island. An oil mill has been started in Kavaratti under the co-operative sector and a hosiery factory has been set up in Kalpeni. Fish-drying, jaggery and vinegar-making also provide gainful employment to the islanders, though this work does not contribute significantly to the total income of the island. Diesel operated electricity generators having capacity of 225 k.w. are functioning in four islands.

The expenditure on industries during the Third Plan period was Rs. 361,000. The approved outlay for the Fourth Plan is Rs. 340,000. During the Fourth Plan period training will be given to 10 islanders each year in blacksmithy, carpentry and allied trades.

EDUCATION

The Territory has at present 38 institutions including one Higher Secondary School, 4 High Schools, 11 Senior Basic Schools, 18 Junior Basic Schools and 6 Nursery Schools. To encourage education of girls, separate sections in free schools have been opened exclusively for them. Besides 4 senior basic schools, and 4 junior schools are exclusively for girls. Education is free at all stages. Scholarships and full tuition fees are awarded to students who take post-matric studies outside the Territory. In 1968-69 number of students listed was 67,000, and teachers numbered 302. It is proposed to start a junior college during the 4th plan.

PUBLIC HEALTH

There are at present seven primary health centres and two hospitals at Kavaratti and Minicoy. One of the achievements of the Medical Department during the last decade was the control of the spread of communicable diseases like leprosy and filaria. All the leprosy cases have now been isolated in separate colonies where free medical aid is provided. At present there are 3 such colonies. There are health inspectors in all the islands and medical aid is free. Acute cases are brought out to the mainland and given free treatment.

The total expenditure on health schemes during the Third Plan period was Rs. 780,000. A sum of Rs.1·5 million has been provided for health schemes during the Fourth Plan. Among the major schemes for implementation during the period is the expansion of the hospital at Kavaratti by providing an operation theatre, an X-ray unit and a T.B. Ward.

COMMUNICATIONS

Three motor vessels, one owned by the Administration and two chartered from a private company, are plying between the islands and the mainland. The motor vessel of the Administration, 'M. V. Laccadives' was launched in 1966.

The islanders carry the bulk of their cargo by traditional sailing vessels.

There are 9 post offices and 9 wireless stations in the Territory. The opening of wireless stations and post offices in all the nine major islands now enable continuous communication between the mainland and the islands.

FIVE YEAR PLANS

The islands did not have the benefit of the 1st Five Year Plan. The Second Plan, finalised in 1957 envisaged a total outlay of Rs. 7·38 million. The actual expenditure came to Rs. 4·02 million. The total expenditure during the Third Plan was Rs. 10·85 million, which was Rs. 1·02 million in access of the actual allotment for the territory.

The Planning Commission has sanctioned Rs. 22·64 million for development works during the Fourth Plan period.

Following is the break-up of allocations under main heads:

	(Rs. in million)
Agriculture	1·80
Fisheries	8·00
Co-operation	1·20
Power	1·00
Industries	0·34
Transport	4·00
Education	4·50
Health	1·50
Housing	0·10
Miscellaneous	0·20
Total	22·64

MADHYA PRADESH STATE

CAPITAL: Bhopal; **Area:** 71·20 sq. kms.; **Population** 392,077.

Area of the State: 443,459 sq. kms.; **Population of the State:** 41,654,119; **Literacy:** 22·12 per cent; **Sex Ratio:** 943 Females per 1,000 Males. **Density:** 94 per sq. km.

Districts: The headquarters of the districts are the towns of the same name except Surguja which has Ambikapur as its headquarters.

Name	Area in sq. kms.	Population
Morena	11,600	984,461
Bhind	4,500	792,093
Gwalior	5,200	858,001
Datia	2,000	255,319
Shivpuri	10,300	676,338
Guna	11,100	783,541
Tikamgarh	5,100	568,877
Chhatarpur	8,700	712,296
Panna	7,100	428,121
Satna	7,500	911,825
Rewa	6,300	977,330
Shahdol	14,000	1,029,144
Sidhi	10,500	777,340
Mandsaur	10,300	961,526
Ratlam	4,900	625,118
Ujjain	6,100	862,777
Jhabua	6,800	667,944
Dhar	8,100	841,495
Indore	3,900	1,036,332
Dewas	7,000	593,798
Khargaon (West Nimar)	13,400	1,283,170
Khandwa (East Nimar)	10,700	879,813
Shajapur	6,200	677,578
Rajgarh	6,200	645,855
Vidisha	7,400	656,011
Sehore	9,300	1,085,119
Raisen	8,400	552,680
Hoshangabad	10,000	805,457
Betul	10,100	736,482
Saugor	10,200	1,062,127
Damoh	7,300	573,201
Jabalpur	10,200	1,686,165
Narsimhapur	5,100	519,565
Mandla	13,300	874,762
Chhindwara	11,800	990,341
Seoni	8,800	670,901
Balaghat	9,200	980,161
Surguja	22,300	1,321,346
Bilaspur	19,900	2,441,212
Raigarh	12,900	1,277,954
Durg	19,700	2,461,525
Raipur	21,300	2,611,183
Bastar	39,100	1,514,400

Total No. of Districts: 43; No. of Tehsils: 190; No. of Municipalities: 160.

Major Cities (Over 100,000 population)

Name	Area in sq. kms.	Population
Indore	55·84	572,622
Jabalpur	132·09	533,751
Gwalior	65·00	406,755
Bhopal	71·29	392,077
Durg-Bhilainagar	103·90	245,333
Ujjain	17·48	209,118
Raipur	25·17	205,909
Saugor	33·74	154,811
Bilaspur	31·34	130,804
Ratlam	12·95	118,625
Burhanpur	10·46	105,349

State Boundaries : The State is bound by Uttar Pradesh in the north, Bihar in the north-east, Orissa in the east, Maharashtra in the south, Gujarat and Rajasthan in the west.

State Language: Hindi. Main languages spoken in the State are: Hindi, Urdu, Marathi, Rajasthani, Gujarati, Sindhi and English.

AGRICULTURE

See main chapter on "Agriculture".

Land Ceiling: Has been fixed at 4 hectares for an individual, 6 hectares for a family of upto five members and 7·28 hectares for a family of more than five according to a bill passed in April 1972.

Civil Supplies (1970-71).

Foodgrains Exported (name and quantity in tonnes): During Nov. 1971 to Sept. 1972, Food Corporation of India exported 419,752 tonnes rice. Rice mills and M.P. State Marketing Federation were given licences for the export of Kanki, Poha and Murmura. During 1971-72 they exported 22,061 tonnes of rice, 14,535 tonnes of Kanki; 8,111 tonnes of Poha and 1,653 tonnes of Murmura to other States.

Forests : (1972-73) The area of forests by composition is as follows: Teak forests, 31,190 sq. kms.; Sal forests 37,696 sq. kms.; Mixed forests 55,936 sq. kms.

Of the total area of 168,132 sq. kms. 79,940 sq. kms. are reserved forests, 86,948 sq. kms. are protected and 1,344 sq. kms. are unclassed forests.

Livestock : The State has a total population of 7,135,792 milch cows and 2,303,426 buffaloes. The State produces 1,444 million kgs. of milk averaging 113 grams per head of population.

The State has 1,573 veterinary services. 40 new dispensaries have been established this year.

Dairying : Milk supply scheme has been implemented in 4 major cities — Bhopal, Gwalior, Indore and Jabalpur. 10,000 litres of milk is supplied every day. Its present supply capacity will be doubled during this year. Nine Milk Supply Schemes have been started in Ujjain, Raipur, Saugor, Katni, Rewa, Bilaspur, Ratlam, Khandwa and Burhanpur towns. Milk supply under Small Town Scheme has been started in 13 towns.

Poultry Farming : It has been encouraged in 71 blocks and 424 poultry units have been established.

Irrigation and Power Projects : Please see main chapter on Irrigation and Power.

INDUSTRIES

Main Medium and Large-Scale Industries of the State with location in brackets :—

Cotton Textiles :—(Indore 7, Gwalior 2, Ujjain 4, Mandsaur 1, Dewas 1, Ratlam 1, Bhopal 1, Burhanpur 2, Rajnandgaon 1, Bilaspur 1, Khandwa 1, Sanavad 1).

Art Silk Fabrics : (Indore, Gwalior, Ujjain, Nagda); *Staple fabric yarn :* (Nagda); *Viscose Staple Fibre :* (Nagda); *Cement :* (Kymore, Bamore, Satna, Jamul, Mandhar); *Coal :* (Bilaspur 4, Betul 1, Chhindwara 10, Surguja 11, Sidhi 1, Shahdol 8).

Refractories & Fire bricks : (Jabalpur, Katni); *Gun Carriage Factory* (Jabalpur); *Ordinance Factory* (Katni); *Asbestos Cement Products* (Kymore); *Sugar* (Jaora, Dalauda, Mahidpur, Dabra, Sehore); *Newsprint paper Mill* (Nepanagar); *Currency and Bank Note Paper* (Hoshangabad); *Straw Board and Paper* (Bhopal, Ratlam, Vidisha, Sehore and Amlai); *Particle Anchor Board* (Itarsi); *Heavy Electrical Equipments* (Bhopal); *Jute Mill* (Raigarh); *Flour Mill* (Indore, Bhopal, Ganj Basoda, Raipur); *Vegetable Oil* (Dewas, Khandwa, Ganj Basoda, Bilaspur, Raipur); *Alcohol* (Ratlam); *Coca Cola* (Indore); *Vanaspati* (Indore, Dewas); *Iron & Steel Project* (Bhilai); *Govt. Post & Telegram Workshop* (Jabalpur); *Railway Workshop* (Raipur); *Mining of Iron Ore* (Bastar); *P.V.C. Cables* (Satna); *Textile Machinery* (Gwalior); *Power Driven Pumps* (Dewas), *Biscuits* (Indore, Gwalior); *Steel Casting & Re-rolling Mills* (Indore, Kumhari, Ujjain, Gwalior, Bangrod); *Sulphuric Acid* (Nagda, Kumhari); *Superphosphate* (Kumhari); *Carbon-di-sulphide and Anhydrous Sodium Sulphate* (Nagda); *Compressed Oxygen & Dissolved Acetylene* (Bhopal); *Bichromate of Soda Chromic Acid* (Bhilai); *Moped* (Gwalior); *Steel Forging* (Bhopal); *Arc Welding Electrodes* (Raipur and Indore); *Valves* (Bhopal); *Plates Round Bars* (Indore); *Mild Steel and G.I. Wire* (Indore).

Cottage Industries : Main cottage industries in the State with location in brackets :—Handlooms (100,000 looms) spread all over the State but best developed at Chanderi and Maheshwar; Silk (Raigarh, Champa, Bilaspur, Surguja); Mulberry (Indore, Jhabua, Depalpur, Dhar); Fine Sarees (Chanderi, Maheshwar, Burhanpur); Wood work and lacquerware (Sheopur, Sabalgarh, Budhni, Rewa, Gwalior); Wooden toys (Rewa, Bhopal, Gwalior, Ratlam); Softstone (Jabalpur, Chhatarpur); lac (Seoni, Raipur, Bilaspur, Umeria and Rewa); Saw milling (Betul, Bhopal, Balaghat, Bilaspur, Raipur, Indore, Jabalpur, Saugor and Mandla); Brassware (Balaghat, Chhindwara, Indore, Gwalior, Raipur and Chhatarpur); Textile hand printing (Ujjain, Mandsaur, Morena, Indore, Hoshangabad); Diamond cutting and polishing (Panna); Papier Mache (Gwalior, Ujjain, Indore); Zari embroidery (Bhopal); Art metalware (Bastar, Betul), Hoshangabad, Satna, Mandla); Leather toys (Indore).

Industrial Estates : There is a network of industrial estates in the following places: Indore, Gwalior, Raipur, Bhopal, Jabalpur, Bilaspur, Saugor, Ratlam, Katni, Burhanpur, Satna, Vidisha, Guna, Shahdol, Durg, Rajnandgaon, Bhilai and Ujjain.

Besides 27 semi-urban industrial estates and 33 rural work sheds have also been constructed in the State.

INDUSTRIAL DEVELOPMENT AGENCIES

Madhya Pradesh Audyogik Vikas Nigam Ltd., ('A' Block, Old Secretariat, Bhopal) aims to promote the establishment of industries in State by providing financial, technical and other assistance.

Madhya Pradesh Financial Corporation, (Shiv Vilas Place, Indore City), renders financial assistance to industrial units in private and co-operative sectors.

Madhya Pradesh State Industries Corporation Ltd., (Maheshwari Bhavan, Civil Lines, Bhopal 462002) helps the proper running of medium industries under the State sector.

Madhya Pradesh State Mining Corporation Ltd. (Fourth Bridge Road, Napier Town, Jabalpur) helps in the search of mining operation of major and rare minerals and their trade.

LABOUR

No. of working factories : 3,003. No. of workers : 195,010 (including 22 defence factories). (Position as on 31st December 1970.)

Important industries with the number of units (employing more than 100 workers) and workers employed respectively in each industry within brackets :

Process allied to Agriculture 19 (3,168) ; Sugar 6 (3,596) ; Rice 2 (257) ; Oil (including Hydrogenated oil) 6 (1,589) ; Flour 2 (264) ; Bakery 1 (382) ; Beverages 2 (411) ; Textile (Cotton, Jute, Silk, Woollen, Carpet Weaving, etc. Mills) 30 (48,207) ; Wood and Cork except Furniture 5 (1,927) ; Paper and Paper Products 6 (3,998) ; Chemicals and Chemical Products 7 (3,074) ; Pottery 6 (2,221) ; Cement 5 (4,641) ; Asbestos 1 (708) ; Non-metallic Minerals Products (Bricks and Tiles, Stone Dressing and Crushing and others) 5 (1,080) ; Basic Metal Industries (Iron & Steel, Rolling into Boric Forms and Rough Casting) 25 (13,415) ; Metal Products (except Machinery and Transport Equipment) 4 (655) ; Machinery (except Electrical Machinery) 8 (3,589) ; Electrical Machinery Appliances, Apparatus and Supplies 4 (12,998) ; Transport Equipment 9 (2,595) ; Electricity, Gas and Steam 7 (2,740) ; Starch 1 (250).

Man-days Lost : Man-days lost due to industrial disputes : 686,000 ; Industrial disputes in public sector : 34 ; Maximum No. of workers involved : 65,649.

Panchayats and Social Welfare : The Directorate of Panchayats and Social Welfare comprises three units namely—Panchayats, Social Welfare and Social Education.

The State Panchayats Act envisages a three-tier system of Panchayats viz. Gram Panchayats at village level, Janpad Panchayats at block level and Zilla Panchayats at district level. The Gram Panchayats and Janpad Panchayats have come into being in 1965 and their number is 12,815 and 390 respectively at present.

The Directorate runs 44 institutions in the fields of Women and Child Welfare, Social and Moral Hygiene and After Care Programme, Rehabilitation of the Physically Handicapped and Social Defence Programme. 194 institutions run by non-official agencies are given grants-in-aid to the tune of Rs. 250,000 annually. Stipends and financial help is given to individual beneficiaries under the scheme for physically handicapped.

The Crash Nutrition Programme has been started in 13 cities of the State. Under this programme, nutritious food has been distributed to children living in slum areas. 'Nirashriton-ki-Sahayata Act' had come into force in the State and 6 Corporations, 133 Municipalities, 4 Notified Area Committees and 787 Village Panchayats have taken initiative to implement this Scheme. Under the Madhya Pradesh Children Act, a special school in Indore, a Children's Home in Jabalpur and four observation homes in Indore, Gwalior, Jabalpur and Raipur are being established this year. Juvenile courts have also been established in Indore, Gwalior, Jabalpur, Raipur, Durg and Jagdalpur.

Social Education : Under social education programme, Adult Literacy Campaign is undertaken. Besides conducting 1,412 literacy classes, follow-up programmes of production of literature, 14,691 curiculating libraries, 2,160 reading rooms, 26 Kalpathak Units, 13,000 Community listening centres and 38 film-units are being implemented.

EDUCATION (1970-71)

Schools	No.	Pupils	
		Boys	Girls
Primary ..	36,980	1,858,504	737,738
Middle	5,851	751,293	245,274
H. S. Secondary	1,656	450,269	129,421

No of Teachers: 142,261 (Primary 80,126 ; Middle 37,155 ; H. S. Secondary, 24,422).

Colleges : The following are the category-wise number of colleges for boys and girls respectively :—University : 10 ; — ; Arts colleges 81 ; 11 ; Science colleges : 11 ; — ; Arts & Science colleges : 71 ; 10 ; Home Science colleges : — ; 3 ; Agriculture colleges : 7 ; — ; Commerce colleges : 7 ; — ; Music & Dancing colleges : 22 ; 1 ; Fine Arts colleges : 6 ; — ; Law colleges : 28 ; — ; Medical colleges : 15 ; — ; Dentistry Colleges : 1 ; — ; Nursing college : 1 ; — ; Veterinary colleges : 2 ; — ; Physical education : 2 ; — ; Social colleges : 1 ; — ; Colleges of education : 11 ; — ; University college of education : 1 ; — ; Sanskrit colleges : 11 ; —.

Technical Education : Prevocational Training centres : 6 ; Secondary Technical schools : 14 ; Fine Arts colleges : 6 ; Kala Niketan 1 ; Polytechnics 22 ; Engineering colleges : 9.

Universities : With No. of Students.

Ravishankar Vishwavidyalaya, Raipur 22,619 ; Jivaji Rao Vishwavidyalaya, Gwalior 29,487 ; Vikram Vishwavidyalaya, Ujjain 30,308 ; Awadesh Pratap Singh Vishwavidyalaya, Rewa 17,351 ; Indore Vishwavidyalaya, Indore 16,370 ; Jabalpur Vishwavidyalaya, Jabalpur 16,874 ; Saugor Vishwavidyalaya, Saugor 3,673 ; Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur N.A. ; Bhopal Vishwavidyalaya, Bhopal N.A. ; Indira Sangeet Vishwavidyalaya, Khairagarh 1,669.

PUBLIC HEALTH (1971)

No. of Hospitals & Dispensaries 556 ; No. of Beds 15,288 ; No. of Allopathic Hospitals 150 ; No. of Primary Health Centres 452 ; No. of T.B. Hospitals & T.B. Sanatoria 7 ; No. of Leprosy Homes and Hospitals 8 ; No. of Mental Hospitals 2 ; No. of Medical colleges : 6.

No. of Doctors in Government Hospitals 2,908 (1970).

No. of Nurses, Dais and Midwives 5,810 (1970).

Total No. of patients treated in the State during 1971 : 431,478 (Indoor) ; 12·47 million (Outdoor).

Other Services : District T.B. clinics 28 ; Other T.B. clinics 14 ; No. of Leprosy clinics 163 ; No. of Leprosy Control units 7 ; No. of Leprosy S.E.P. Centres 71 ; No. of M.C.W. Centres 199 ; No. of Dental clinics 62 ; No. of Family Planning clinics 523 ; No. of Family Planning Training Centres 3 ; No. of Cancer Hospitals/Clinics 2 ; No. of Dental Colleges 1 ; No. of Nursing Colleges 1 ; No. of Nurses Training Centres 11.

COMMUNICATIONS (As on 31st Dec. 1970)

The M.P. State Road Transport Corporation is operating its services on 982 routes including 89 inter-State, 16 night services and 5 delux services. 1,877 buses serving on an average 324,300 passengers per day, run 342,275 kms. The Corporation is operating city services in Bhopal, Jabalpur, Gwalior, Indore and Ujjain.

No. of State Transport Buses: 1,200; Total No. of vehicles in the State: 73,171.

Roads: Black top: 12,340 kms; Concrete 39 kms; Water-bound Macadam: 11,905 kms.; Unsurfaced motorable: 9,448 kms.; Total length: 33,732 kms.

Length of Railway lines: 5,461·3 kms.

The Central and State Governments have contributed Rs. 108. 3 million to the Corporation.

Press: Leading dailies, their places of publication and circulation figures.

Hindi: Nava Bharat, Indore/Bhopal/Raipur/Jabalpur, 60,000; Nai Dunia, Indore, 56,000; Deshabandhu, Jabalpur/Raipur, 18,000; Yugadharma, Jabalpur/Raipur, 16,000; Swadesh, Indore/Gwalior, 13,000; Naveen Dunia, Jabalpur, 12,000.

English: Hitavada, Bhopal, 65,000; M.P. Chronicle, Bhopal, 55,000.

GENERAL

Important Rivers: The Narmada, The Mahanadi, The Tapti.

Minor Rivers: The Chambal, The Kshipra, The Betwa, The Ken, The Son, The Indravati.

Plan Outlay: for 1973-74. Plan outlay: Rs. 1400 million. Distribution of the outlay:—Development of minor irrigation: Rs. 117·20 million; Agricultural production programme: Rs. 53·50 million; Irrigation & Power: Rs. 557·40 million; Roads: Rs. 100·00 million; Water supply: Rs. 69·00 million; Cooperation: Rs. 42·00 million.

MAHARASHTRA STATE

CAPITAL: Greater Bombay. **Area:** 481·74 sq. kms. **Population:** 5,968,546.

Area of State: 307,477·03 sq. kms. **Population of State:** 50,335,492. **Density:** 164 per sq. km. **Sex Ratio:** 932 females per 1,000 males. **Literacy:** 39·08 per cent.

Districts: 26 (231 Talukas and Mahals. 225 Municipal towns). The names of the districts with headquarters in brackets, area in square kilometers and population, is as follows:—

Greater Bombay (Bombay), 481·74, 5,968,546; Thana (Thana), 9,474·22, 2,278,645; Kolaba (Alibag), 7·034·44, 1,261,156; Ratnagiri (Ratnagiri), 13,014·75, 1,985,076; Nasik (Nasik), 15,591·80, 2,367,002; Dhulia (Dhulia), 13,006·98, 1,661,198; Ahmednagar (Ahmednagar), 17,057·74, 2,266,555; Poona (Poona), 15,625·47, 3,172,437; Satara (Satara), 10,466·19, 1,720,234; Sangli (Sangli), 8,544·41, 1,536,340; Kolhapur (Kolhapur), 8,135·19, 2,044,832; Sholapur (Sholapur,) 15,045·31, 2,251,409; Jalgaon (Jalgaon), 11,844·07, 2,122,866; Aurangabad (Aurangabad). 16,353·26, 1,958,036; Parbhani (Parbhani), 12,572·56, 1,503,724; Bhir (Bhir), 11,054·12, 1,284,193; Osmanabad (Osmanabad), 14,255·36, 1,892,683; Nanded (Nanded), 10,422·00, 1,397,277; Buldhana (Buldhana), 9,715·09, 1,261,173; Akola (Akola), 10,606·05, 1,500,468; Amravati (Amravati), 12,232·57, 1,544,229; Yeotmal (Yeotmal), 13,587·14, 1,420,758; Wardha (Wardha), 6,291·11, 778,437; Nagpur (Nagpur), 9,950·78, 1,941,097; Chandrapur (Chandrapur), 25,838·00, 1,635,306; Bhandara (Bhandara), 9,277·3, 1,581,815.

Major Cities	Population	Area in sq. kms.
Greater Bombay ..	5,968,546	481·74
Nagpur	866,144	217·56
Poona	853,226	130·28
Sholapur	398,122	22·35
Kolhapur	259,068	64·15
Amravati	193,636	36·34
Malegaon	191,784	10·44
Nasik	176,187	47·42
Thana	170,167	26·75
Akola	168,454	16·39
Ulhasnagar	168,128	13·34
Aurangabad	150,514	40·79
Dhulia	137,089	26·75
Nanded	126,400	12·67
Ahmednagar	117,275	24·71
Sangli	115,052	20·90
Jalgaon	106,739	12·30

No. of Villages: 35,351 inhabited (1961 census). **Recent Estimate:** 36,000 (approximately).

State Boundaries: It is surrounded by the Arabian Sea in the west; by Gujarat in the north-east, Madhya Pradesh in the north, Andhra Pradesh in the south-east, and Mysore and Goa in the south.

State Language: Marathi.

AGRICULTURE

Classification of land and area in '00 hectares for 1969-70 respectively are:

Total Geographical Area 30,768,1; Area under Forests 5,408,5; Net Area Sown 18,462,4; Gross Cropped Area 19,435,1; Barren & Uncultivable Land 1,773,7; Land put to non-agricultural use 682,0; Culturable Waste 708,4; Land under miscellaneous tree crops 195,0; Permanent Pastures and other grazing lands 1,351,3; Current Fallows 1,081,8; Area sown more than once 972,7; Other Fallows 1,105,0.

Area Irrigated by Sources ('000 hectares), 1969-70: Government canals 280; tanks 225; wells 828; other sources 105; net irrigated 1,431; gross irrigated 1,623.

Area Irrigated by Crops during 1969-70 (In '000 hectares): Rice 314; Wheat 263; Jowar 289; Sugarcane 222; Cotton 66; Groundnut 17.

See main chapter on 'Agriculture' for details of production etc.

Livestock: Livestock as per 1966 census: Total cattle: 14,729,446; Total Buffaloes: 3,041,919; Sheep: 2,205,063; Goats: 5,121,337; Horses and Ponies: 101,004; Pigs: 181,122; Camels 1,935; Other Livestock 67,207; Total Livestock: 25,449,033; Poultry: 9,901,987.

Dairying: There are 21 Government Milk Schemes operating in the State. They are at Greater Bombay, Pune, Nasik, Dhulia, Miraj, Sholapur, Kolhapur, Aurangabad, Akola, Amravati, Nagpur, Ahmednagar, Chalisgaon, Chiplun, Ratnagiri and Kankavli (Ratnagiri district), Mahad and Khalapur (Kolaba district), Mahableshwar (Satara district) and Arvi (Wardha district). The creamery at Udgir in Osmanabad district has been converted into liquid milk scheme. There is a dairy project at Dapchari and a Govt. Dairy and Dry Stock Farm at Palghat in Thana District. The average quantity of milk procured daily under all Government Milk Schemes (except Greater Bombay Milk Scheme) during December 1971, was about 325 kilolitres. Under the Greater Bombay Milk Scheme, the daily average quantity of milk (including whole, toned, standardised and double toned milk) distributed in December, 1971 was about 524 kilolitres.

New Powder Milk Plant: This plant at Miraj is capable of converting 60,000 litres of milk a day into milk powder and butter and processing another 60,000 litres of milk.

New Milk Plant at Dhulia: Capable of processing 120,000 litres a day the machinery and equipment was donated by New Zealand under the Colombo Plan. It was inaugurated on 6th October, 1972.

Aarey Milk Colony: Started functioning March 13, 1949; Investment by Government Rs. 57·5 million; by cattle owners in cattle Rs. 30 million.

No. of licensee cattle owners 218; No. of dairy farm units 30.

No. of animals at Aarey: Buffaloes (milch) 15,444; (dry) 490; Bulls 152; Young Stock 3,400; Cows (milch) 25 (with licensees), 260 (with Government).

Average daily milk production per milch animal at Aarey: buffaloe's 7·00 litres; cow's 3·50 litres.

Pasteurisation capacity: 18,000 litres per hour.

Bottling capacity: 40,800 bottles per hour.

Worli Dairy: Started functioning on November 7, 1961; Investment on land, buildings etc.: Rs. 14,605,000; Value of machinery purchased by State Government Rs. 3,866,000; Value of machinery supplied by UNICEF Rs. 6,479,000.

Pasteurising capacity: 40,000 litres per hour; Bottling capacity: 50,000 bottles per hour.

Dapchari Milk Project: Government Investment (estimated): Rs. 50·14 million.

No. of animals (*a*) milch cattle with family of farmers 10,000; with licensees 10,000; with research centre 1,000; (*b*) dry cattle: 10,000; (*c*) young stock 10,000.

The project will be completed in another five years and will supply milk to the extent of 125,000 litres per day.

Poultry: The scheme for the collection and marketing of eggs was introduced in the State in 1962-63 to control the price of eggs, to provide marketing facilities to agriculturists and to augment poultry production. At present there are 5 units and 29 sub-centres under this scheme. Under the scheme about 30,000 eggs are handled per day.

Fisheries: Refer to the main chapter on 'Fisheries'.

Irrigation and Power Projects: Refer to the main chapter on 'Irrigation and Power Projects'.

Electric Power Development: All places with a population of 50,000 and over are electrified.

INDUSTRIES

Textiles; food industries; general and electrical engineering; petroleum; transport and transport equipment; sugar factories and refineries; rubber products; basic industrial chemicals, paints, varnishes, lacquers and miscellaneous chemical products are the major industries of the State.

According to the Bureau of Economics and Statistics, Bombay, there are 9,803 working factories in Maharashtra State with a daily attendance of 952,000. It is an important State of India as regards industrial growth and accounts for 17 per cent of the total productive capital employed in industries all over the country.

Khadi and Village Industries: Following industries have been taken up by the board for development:—Beekeeping, khadi, wool and silk, neerapalmgur, gur and khandsari, village oil, processing of cereals and pulses, fruit processing, hand-made paper, non-edible oil and soaps, village pottery, village leather, lime manufacturing, cottage match, fibre, carpentry and blacksmithy, manufacture and use of methane gas and manure, bamboo and cane work, katha, collection of forest plants and fruits for medical purposes, manufacture of aluminium articles and utensils.

Large and Medium Scale Industries: Industries in this sector were mainly confined to Bombay City till the Maharashtra State came into being. Since then it has spread to other parts of the State also.

Distribution of working factories (1969) district-wise is as follows:—

Greater Bombay — 4,831, Thana — 825, Kolaba — 85, Ratnagiri — 45, Nasik — 306, Dhulia — 184, Jalgaon — 192, Ahmednagar — 237, Pune — 862, Satara — 60, Sangli — 111, Sholapur — 298, Kolhapur — 366, Aurangabad — 109, Parbhani — 48, Bhir — 24, Nanded — 43, Osmanabad — 24, Buldana — 57, Akola — 93, Amravati — 80, Yeotmal — 71, Wardha — 39, Nagpur — 368, Bhandara — 170, Chandrapur — 42.

Traditional industries, like textiles, still dominate. However, other industries, like engineering and chemicals, have made a tremendous headway. According to 1969 statistics, the number of working factories commodity-wise is:

Agricultural Processing — 420, Food — 1,273, Beverages — 32, Tobacco and its products — 409, Textiles — 1,190, Textile for Footwear and other uses and Ready-made Garments—121, Wooden items (excluding furniture) — 264, Furniture etc. — 71, Paper and paper products — 153, Printing press and allied — 649, Leather goods (excluding footwear) — 30, Rubber and rubbber products — 101, Chemicals — 570, Petrol and Coke products — 49, Petrol and Coal-based Mineral products (excluding metals) — 541, Non-ferrous metals — 357, Metal products (excluding transport items) — 950, Machinery (excluding electrical machines) — 779, Electrical Machinery and Gadgets — 376, Transport items — 345, Miscellaneous Industries 683, Electric Gas, Steam etc. — 100, Water and Cleaning service — 48, Cultural services (entertainment) — 20, Personal services — 39.

Joint Stock Companies: No. of Joint Stock Companies limited by shares as on 31st March 1971: 6,387; Paid-up Capital: Rs. 8,440 million.

No. of new joint Stock Companies incorporated and registered with authorised capital (Rs. in million) respectively: 1966-67: 227; 316·9; 1967-68: 249; 406·9; 1968-69: 262; 119·00; 1969-70: 329; 367·5; 1970-71: 462; 560·4.

Industrial Estates: Sixty-nine places have been selected for the location of industrial estates. Six estates are established by the Government, 58 on co-operative basis, 2 by municipal corporations, and 3 functional estates by Maharashtra Industrial Development Corporation. By March 1970, 17,438 people were employed in the industrial estates.

Industrial Development Agencies : See chapter on 'State Corporations'.

LABOUR

Trade Unions : No. of registered trade unions as on 31st August, 1972 : 2,792. Total membership of registered trade unions : 1,253,515. No. of registered trade unions affiliated to Indian Trade Union Congress : 119 with membership of 216,006. No. of registered trade unions affiliated to All India Trade Union Congress : 79 with membership of 47,878. No. of registered trade unions affiliated to Hind Mazdoor Sabha 50 with membership of 136,874.

No. of Factories : Total No. of registered factories as on 30th June 1971 : 11,056.

No. of Workers : Average daily No. of workers employed in factories as on 30th June, 1971 : 944,094.

The table below gives the average daily number of workers employed in various industries.

Industry	Average daily No. of workers employed
Ginning and Pressing	19,316
Food (except Beverages, Sugar factories and refineries)	37,215
Sugar factories and refineries ..	22,713
Tobacco	24,552
Textiles	302,426
Printing, Publishing and Allied industries	35,834
Rubber and rubber products ..	14,246
Basic Industrial Chemicals and miscellaneous chemical products	65,197
Products of Petroleum and Coal	5,121
Non-metallic Mineral products (except products of Petroleum and Coal)	37,694
Basic Metal industries	28,650
Metal products (except Machinery and Transport equipment)	135,961
General and Electrical Engineering	51,964
Transport and transport equipment	74,427
Other industries	50,457
All Industries	905,773

Industrial Disputes during 1971 : During the year there were 677 disputes involving 446,000 workers with a time-loss of 2·01 million man-days. Figures for 1970 were 668 disputes involving 362,000 workers with time-loss of 2·25 million man-days.

Employment and Unemployment (1971-72)

No. of registrations : 464,017 ; No. of placements : 43,504 ; No. of vacancies notified : 84,644 ; No. on live register as at the end of the year : 438,025.

Breakdown of unemployed according to educational qualifications (1971) : Below matric including illiterate : 246,047 ; Matriculates : 151,795 ; Intermediates : 11,190 ; Engineering graduates : 889 ; Medical graduates : 103 ; Other graduates : 18,306 ; Post graduates : 1,248.

Employment in the Public Sector (Central, State, Quasi-Government and Local Bodies) was 1·49 million in September, 1971. It has increased 18·2 per cent over the last four years.

EDUCATION

Provision in 1971-72 Budget for Education was Rs. 973·2 million.

TEACHING INSTITUTIONS (1971-72)

Type	Number	Enrolment
Schools		
Pre-Primary	730	52,056
Primary	45,370	6,704,567
Secondary*	5,611	2,121,423
Multipurpose High Schools ..	349	290,299
Vocational High Schools ..	32	14,447
Night High Schools	179	45,194
Colleges		
Teachers Training†	211	25,153
Higher Education	582	352,526
Professional		
Professional and Special Education	946	82,287

* Includes the next three categories.

† Excludes teachers training at graduate level which is included in 'Higher Education'.

Universities

1. *University of Bombay* (established in 1857) has jurisdiction over Bombay. Nine colleges of Goa are also affiliated.

2. *University of Poona*, Pune (established in 1948) has jurisdiction over Pune, Ahmednagar, Jalgaon, Dhulia, Thana, Nasik and Kolaba districts.

3. *Nagpur University*, Nagpur (established in 1925) has jurisdiction over the districts of Akola, Buldana, Amravati, Nagpur, Bhandara, Yeotmal, Wardha, Chandarapur and Rajura taluka of Vidarbha area.

4. *Marathwada University*, Aurangabad (established in 1958) has jurisdiction over the five districts of Marathwada area viz. Aurangabad, Bhir, Nanded, Osmanabad and Parbhani.

5. *Shivaji University*, Kolhapur (established in 1963) has jurisdiction over Kolhapur, Sholapur, Satara, Sangli and Ratnagiri districts.

6. *Shrimati Nathibai Damodar Thackersey Women's University*, Bombay (established in 1949), is exclusively for women and has unrestricted territorial jurisdiction.

7. *Mahatma Phule Agricultural University*, Rahuri, Ahmednagar district (established in 1968).

8. *Panjabrao Deshmukh Agricultural University*, Akola (established in 1969) has jurisdiction over revenue divisions of Nagpur and Aurangabad.

(For further details of the universities in Maharashtra State, see chapter on Education.)

PUBLIC HEALTH

	Hospitals		Dispensaries		Total	
	No.	Beds	No.	Beds	No.	Beds
State Government.. ..	77	17,325	34	427	111	17,752
Central Government ..	9	1,020	6	—	15	1,020
Mun. and local bodies ..	90	4,850	911	1,842	1,001	6,692
Private agencies	217	11,751	51	210	268	11,961

Total No. of Allopathic Medical Practitioners registered : 19,563.

Total No. of Doctors in hospitals and dispensaries: (*a*) Full time: 1,162, (*b*) Honorary: 585, (*c*) Medical Professors and Lecturers : 63.

Total No. of Nursing staff in hospitals and dispensaries : 2,372. (*a*) Nurse Midwives : 854 ; (*b*) Male Nurses : 28 ; (*c*) Female Nurses 1,167 ; (*d*) Midwives : 327.

Total No. of **Medical Colleges** including Municipal and Private: 12. Seats allotted: 1,460; **Dental Colleges :** 3 ; Seats allotted : 210 ; **Mental Hospitals:** 4 ; Beds in Mental hospitals : 5,575.

T.B. Hospitals and Sanatoria : Government Hospitals : 7 ; Private Hospitals : 23 ; T.B. Clinics : 23 ; Total No. of T.B. Beds : 5,696.

No. of Primary Health Centres under Public Health Department : 382 ; No. of beds in Primary Health Centres: 2,292.

Source : Office of the Director of Health Services, Maharashtra State, Bombay.

Non-Allopathic Medical Colleges, Hospitals and Dispensaries:

Ayurvedic : No. of Government Colleges : 3 ; Private Colleges : 12 ; Total No. of seats provided : 330 ; No. of Government Hospitals: 3; Government aided: 12; Research Ward (Government) : 1 ; Total No. of beds : 1,475 ; Zilla Parishad Dispensaries : 405 ; Zilla Parishad aided : 292 ; No. of licentiate Doctors : 12,065.

Homoeopathy : No. of Homoeopathic Colleges : 7 ; No. of seats provided : 50 each ; No. of Homoeopathic Hospitals : 1 ; Total number of beds : 30.

FAMILY PLANNING

The explosive nature of population increase in Maharashtra is clear from estimated figures. The population in the State which was 32·00 million in 1951 rose to 50·33 million in 1971.

The Government of Maharashtra undertook the implementation of the programme in great earnestness in 1967. The work done by the Family Planning Centres during the year 1970-71 is given below.

No. of Urban Family Planning Centres		204
No. of Rural Family Planning Centres		521
Sterilisation operations performed during 1970-71	Vasectomy	140,562
	Tubectomy	107,608
Total		248,170
IUCD insertions done during 1970-71		6,246
Condoms distributed during 1970-71		1,450,258 dozens

COMMUNICATIONS

Number of vehicles

Class of Vehicles	As on 1st January	
	1970	1971
Motor Cycles	62,188	83,930
Motor Cars	108,679	122,508
Taxi Cabs	15,554	17,806
Auto-Rickshaws	2,238	3,049
Stage Carriages		
(*i*) Diesel engined	7,604	9,526
(*ii*) Petrol engined	197	624
Lorries :		
A. Private Carriers—		
(*i*) Diesel engined	6,908	10,878
(*ii*) Petrol engined	8,458	9,354
B. Public Carriers—		
(*i*) Diesel engined	19,977	24,109
(*ii*) Petrol engined	12,038	12,437
Ambulances	400	441
School Buses	442	491
Private Service Vehicles	697	810
Trailors	5,238	7,075
Tractors	6,163	7,821
Others	758	810
TOTAL	257,539	311,669

Length of Motorable Roads

Road length as on 31st March 1970 (in kms.)	
National highways	2,403
State highways	12,993
Major district roads	13,882
Other district roads	9,429
Village roads	23,996*
TOTAL	62,703

* Provisional.

The length of extra-municipal roads in Maharashtra State was 63,700 kilometres at the end of 1970-71. Of these national highways accounted for nearly 4 per cent, State highways 21 per cent and other extra municipal roads accounted for the remaining 75 per cent of the total road mileage.

Nationalised Road Transport: A single Road Transport Corporation for the entire State, known as the Maharashtra State Road Transport Corporation, came into existence on July 1, 1961. This is the biggest road transport organisation in India.

The position of Maharashtra State Transport during the year March, 1972 is given below:

No. of routes: 6,235; Route distance: 382,059 kms.; Average No. of vehicles on road per day: 5,283; Average daily earnings: Rs. 18,67,594; Average No. of passengers who travelled per day: 1,845,681.

B.E.S.T. Bus Section (1971-72)

Total staff in the undertaking: 21,844.

No. of vehicles (including luxury buses): 1,332.

Route kilometres: 1,503·8.

No. of passengers carried per day: 2·48 million.

Total income for the year: 170·634 million.

Total expenditure for the year (excluding passenger tax) Rs. 171·304 million.

Railways: Total 1967 length: 5,193 kms.

PRESS (As on January 1971)

Names	Place of printing	Average net circulation for Jan.-June 1972
Dailies (English)		
Economic Times	Bombay	25,369
Evening News of India	Bombay	19,945
Financial Express	Bombay	11,913
Free Press Bulletin	Bombay	16,265
Free Press Journal	Bombay	69,635
Hitawada	Nagpur	N.A.
Indian Express	Bombay & Ahmedabad	106,142@
Nagpur Times	Nagpur	18,185
Times of India	Bombay & Ahmedabad	175,039@
(Hindi)		
Navbharat	Nagpur & Raipur	N.A.
Nav Bharat Times	Bombay	66,828
(Gujarati)		
Bombay Samachar	Bombay	97,180
Janshakti	Bombay	31,316
Janmabhoomi	Bombay	39,337
Marathi		
Kesari	Pune	48,477†
Loksatta	Bombay	147,483†
Maharashtra Times	Bombay	122,755
Maratha	Bombay	45,000
Navakal	Bombay	44,272
Navshakti	Bombay	43,986
Sakal	Pune	101,034†
Sanchar	Sholapur	14,741
Tarun Bharat	Nagpur	48,911
Tarun Bharat	Pune	N.A.
Sindhi		
Hindustan	Bombay	15,665
Urdu		
Inquilab	Bombay	17,000

GENERAL

Housing: No. of tenements constructed by the Maharashtra Housing Board from April 1947 to March 31, 1972 is given below:

Old Industrial Housing Scheme 2,608; Old Low Income Group Housing Scheme 2,075; Burmah-Shell Oil Refinery 500; Military Hutment 1,575; Rehebilitation 19,715; Subsidised Industrial Housing Scheme 29,466; Low Income Group 9,085; Economically Weaker Section 1,976; Slum Clearance Scheme 16,816; Middle Income Group 2,730; Dishoused Persons Scheme 200; Deposit Contribution work 1,448.

Slum Clearance: The State Government has a slum improvement scheme costing Rs. 61 million and covering 80 per cent of the slums located in Bombay, Pune, Sholapur, Nagpur and Aurangabad.

The scheme envisaged to cover 369 slums, 225,000 huts and 1·25 million population in the five cities. In Bombay 206 slums, 132,000 huts and 800,000 population, in Pune 49 slums, 29,000 huts and 137,000 population, in Sholapur 48 slums, 16,735 huts and 90,000 population, in Nagpur 48 slums, 42,612 huts and 213,000 population and in Aurangabad 18 slums, 2,250 huts and 10,000 population would be covered under this scheme.

State Income: According to the preliminary estimates at current prices the State Income of Maharashtra has been placed at Rs. 38,714 million for the year 1970-71 an increase of 5·1 per cent over the previous year. Sector-wise State income (Rs. million) of domestic products by industrial origin at current prices were: Agriculture, animal husbandry; forestry and fisheries etc. 11,175; Mining, industry, construction, electricity etc. 13,189; Transport and communication, trade, storage etc. 7,514 and Banking and insurance, estate and ownership of dwellings, public administration and other services 6,832. The **per capita income** at current prices was Rs. 778 as compared to Rs. 731 in the previous year.

The State Income at current prices is estimated at Rs. 33,150 million during 1968-69 as against the National income estimated at Rs. 285,830 million.

Village Panchayat: (31-3-1972): No. of Panchayat Samitis: 296; No. of villages covered (including 37 non-municipal urban areas): 38,904; Population covered (1961 Census) 28,706,000. At the end of 1970-71 there were about 22,500 Village Panchayats.

Zilla Parishads: Total No. of Zilla Parishads: 25.

Municipal Corporations and Councils: There are four Corporations of Bombay, Pune, Nagpur and Sholapur and 221 Municipal Councils.

Working Class Consumer Price Index Numbers: Statement showing the consumer Price Index Numbers for working class, for the year 1970 and 1971 for 7 selected centres of the Maharashtra State. (Revised Series).

Year	Bombay 1960 = 100	Sholapur 1960 = 100	Nagpur 1960 = 100	Jalgaon 1961 = 100	Nanded 1961 = 100	Aurangabad 1961 = 100	Pune Base average prices for Calendar year 1961 = 100
1970	180	183	186	183	193	184	168
1971	188	195	190	186	195	189	174

Rivers: The Tapti, the Panjhra, the Girna, the Purna, the Wardha, the Wainganga, the Indravati, the Pranhita, the Penganga, the Godavari, the Pravara, the Manjra, the Bhima, the Sina, the Varna, the Ghatprabha, the Mula, the Dudna, the Ghod, the Kadam, the Nira, the Tirna and the Krishna.

@ Combined figures for Bombay & Ahmedabad.

† Average relates to July-Dec. 1971.

Minerals : Maharashtra has rich reserves of manganese ore, iron ore, coal, bauxite, limestone and dolomite. Besides, occurrences of chromite, kyanite, corrundum, silica sand, steatites, ochre, clays, barytes, ilmenite sand, mica, wolfranite etc. are also reported from the State.

Estimated reserves of important minerals in the State are :

Coal about 5,900 million tonnes, **Iron ore** about 231 million tonnes, **Manganese ore** about 16 million tonnes, **Bauxite** about 66 million tonnes, **Limestone** about 4,000 million tonnes.

ANNUAL PLAN

The development programme for 1972-73 envisages an outlay of about Rs. 2,136·40 million in the State Plan.

Following is the break-up of allocations under different main heads : (Rs. Million)

Agricultural Programmes including Minor Irrigation	373·90
Co-operation and Community Development ..	148·90
Irrigation and Power	762·90
Industry and Mining	100·20
Transport and Communications	187·90
Social Services	511·20
Miscellaneous Programmes	51·40
TOTAL	2,136·40

Annual Plan for 1971-72 amounted to Rs. 2,057·90 million.

MANIPUR STATE

CAPITAL : Imphal. **Area :** 17·48 sq. kms. **Population** 141,695.

Area of the State : 22,347 sq. kms.; **Population of the State:** 1,069,555; **Density :** 48 per sq. km.; **Sex Ratio :** 1,037 females per 1,000 males; **Literacy :** 32·80 per cent.

Districts : Manipur has been reorganised into five districts, viz. Manipur Central (Area : 5,600 sq. kms.; Population : 762,425); Manipur North (Area : 3,400 sq. kms.; Population : 102,476); Manipur East (Area : 4,400 sq. kms.; Population : 61,898); Manipur West (Area : 4,300 sq. kms.; Population : 45,212); and Manipur South (Area : 4,600 sq. kms.; Population : 97,544).

Major City : Imphal.

State Boundaries : Manipur is bound in the north by Nagaland, in the south by Mizoram, in the east by Upper Burma and in the west by Cachar district of Assam.

State Languages : Manipuri and English are official languages of the State, though a number of different dialects are spoken. Hindi is becoming gradually prevalent.

AGRICULTURE

The principal crops of Manipur are paddy and maize. There has been a remarkable development in the field of agriculture after the end of the Third Plan and a considerable hectareage of land has been brought under Japanese method of cultivation, double-cropping, etc., by introducing improved seeds and green manuring. Manipur is well situated for the development of horticulture on account of its fertile soil, varied climate and different altitudes. Cultivation of apples on a large scale can be undertaken in the medium-height ranges of the hills and of walnuts and chestnuts in the higher altitudes. The important horticultural crops at present grown are pineapples, oranges, mangoes and guavas.

The area occupied and production of rice during 1969-70 respectively were : 144,000 hectares and 232,000 tonnes.

Forests : Manipur forests are rich in bamboo, cane, teak, jurjan, pine and varieties of timber. There is a proposal to set-up a paper mill as a Government undertaking to utilise the bamboo resources. The immediate prospect for the forest based industry is said to be limited to the manufacture of looms and furniture. The resin from the pine trees can be of use in sizing paper. Bamboo and canes are available in abundance in the South-western hill ranges, specially in the Jiri and Barak river drainage area, and it is estimated that about 2,585 sq. kms. are at present under bamboo and cane, yielding on an average 300,000 tonnes annually.

Fisheries : Pisciculture occupies an important place in the economy of Manipur since more than 75 per cent of the population consume fish. The total annual consumption is estimated to be 13,935 quintals, while the total yield is only 9,400 quintals approximately. There are 303 fishing units registered with the Fishery Department, Manipur, most of which are lakes for pisciculture and the rest riverine and irrigation channels.

Major Power Project : The Loktak project started in 1970 is the biggest centrally sponsored project in Manipur. Canal construction of the project was completed. The construction of Loktak Hydel Tunnel was inaugurated on Oct. 25, 1971, which provides for commissioning the first 35 m.w. unit by March 1974. So far 160 villages have been electrified.

INDUSTRIES

Handloom is the biggest industry in Manipur. There are more than 200,000 registered looms in the territory and 241 weavers' co-operative societies.

One handicraft design centre, one doll and toys production centre, and two bamboo and cane training centres have been established.

Khadi and Village Industries : Khadi and village industries schemes include hand pounding, edible oil-pressing, leather tanning, gur and khandsari, pottery, non-edible oils and soap making, hand-made paper, bee-keeping and match making industries.

There are 32 hand pounding co-operative societies including one at the apex level, 7 pottery co-operative societies, 3 gur and khandsari co-operative societies, 6 khadi institutions and co-operatives, 7 bee-keeping co-operative societies, 3 hide flaying and leather co-operative societies, 4 non-edible oil and soap making co-operative societies, 44 edible oil crushing co-operative societies including one at the apex level and one match making co-operative society.

Small Industries : The small industries in the territory are carpentry, blacksmithy, embroidery, brick making, tailoring and goldsmithy.

An Industrial Advisory Board to accelerate the development of small-scale industries has been set up and the jurisdiction of Assam Financial Corporation has been extended to Manipur, in order to enable private entrepreneurs to establish small industries in the private sector. The administration is considering the establishment of a small paper mill.

The Government of Manipur has taken up in hand the establishment of an industrial estate at Takyelpat, 5 kms. from Imphal with a view to creating basic overheads and conditions for the growth of industries.

Most of the industries are concentrated in the central district of Manipur.

Sericulture : For revitalising the old sericulture industry demonstration centres, silk farms and muga silk production centres were opened. Grants and loans are given for the development of sericulture.

Labour: The following are the number of workers engaged in different fields, the first being males and the second females respectively :

Total No. of Workers : 246,277 ; 137,905 ; Cultivators : 167,232 ; 85,687 ; Agricultural Labourers 8,939 ; 5,726 ; Other Workers : 70,106 ; 46,492.

EDUCATION (1966 statistics)

Institutions	No.	Students Boys	Students Girls	Teachers Men	Teachers Women
Colleges	10	4,067	692	..	..
High Schools	164	8,623	2,516	1,639	123
Middle Senior Basic Schools	273	15,882	6,332	1,133	65
Primary Junior Basic Schools	2,193	47,718	27,348	5,662	403
Pre-Primary Schools	1	17	18	..	2

Educational institutions in 1971 were :

Colleges 13 ; High/Higher Secondary Schools 123 ; Middle Schools/Senior Basic Schools 485 and Primary/ Junior Basic Schools 2,508.

PUBLIC HEALTH (1970-71)

Hospitals 12 ; dispensaries 59 ; primary health centres 12 ; primary sub-centres 38 ; T.B. clinic 1 ; V. D. clinic 1 ; leprosy sub-centres 4 ; dental 2 ; mobile eye relief Camps 5.

A medical college has been established in 1972.

COMMUNICATIONS

Manipur has no railway line and the only surface communication connecting Manipur with the rest of India is the Imphal-Dimapur road, the length of which is 215 kms. A national highway also passes through the State. The old Cachar road was made usable for jeeps during the Second World War. A second road is now being improved for regular vehicular traffic which will link Cachar district of Assam with Manipur. There are five principal private operators of motor transport in the co-operative sector, besides the Manipur State Transport Organisation.

Two land routes from Burma pass through the State. There are air services at regular intervals between Imphal-Silchar, Imphal-Calcutta and Imphal-Gauhati.

GENERAL

With the passing of the North-Eastern Areas (Reorganisation) Bill on 21-12-71, Manipur became a full-fledged State which was till then a Union territory. The State was formally inaugurated by the Prime Minister Mrs. Indira Gandhi on 21-1-72.

Climate: Varied temperatures. The valleys are hot and the hills are cold. Average rainfall is 162·5 cms.

Important rivers : The Iril, the Thoubal, the Imphal, the Barak, the Nambal, the Leimakhong and the Khuga.

Lakes : The Loktak lake is the biggest with an area of 207 sq. kms. The other important lakes are Waithou, Ushoipokpi, Ikop, Laidokan and Phumleu.

Minerals : Geological mapping and mineral investigation conducted by the Geological Survey of India indicated availability of high quality of limestone at different places in the State in sufficient quantities to start a small cement plant.

Tribes : Main population consists of the Meiteis inhabiting the valley with some 40 tribes and sub-tribes known by the generic name of Kukis and Nagas.

FOURTH PLAN

Many schemes are in progress under the Fourth Plan. An amount of Rs. 302·5 million is estimated to be spent on the development work during the period.

MEGHALAYA STATE

CAPITAL : Shillong.* **Area :** 12·36 sq. kms. ; **Population :** 122,752.

Area of the State : 22,500 sq. kms. **Population of the State:** 1,011,699. **Density:** 44·96 per sq. km. **Sex Ratio:** 954 females per 1,000 males. **Literacy :** 29·48 per cent.

Districts	Head-quarters	Area sq. kms.	Population
Khasi Hills	Shillong	10,500	491,209
Jaintia Hills	Jowai	3,900	113,875
Garo Hills	Ura	8,078·21	398,524

Major Cities with their Population : Tura : 15,489 ; Jowai 8,929.

State Boundaries : Bound by Bangla Desh in the south and west, Goalpara, Kamrup districts of Assam in the north and United Mikir and North Cachar Hills districts of Assam in the east.

State Language : The official language of the State is English. The principal languages spoken are Khasi, Jaintia and Garo.

AGRICULTURE

The principal crops of Meghalaya are potato, tezpatta, rice, maize, arecanut and fresh fruits in Khasi and Jaintia Hills and oil seeds, jute, cotton, mesta and tobacco in Garo Hills. Most of the foodgrains have to be imported into the State.

Irrigation and Power Projects : The State is contemplating to take up minor irrigation works in the Fourth Plan. Lift irrigation gets priority under the minor irrigation schemes. The state had installed 100 pump sets and the rural electrification scheme electrified 94 villages up to March 31, 1971. See also "Irrigation and Power" chapter.

INDUSTRIES

In the organised sector, the main industrial unit in the State is the Cement factory at Cherrapunjee. There are 216 small industrial units in the State out of which 143 are in Khasi Hills, 13 in Jaintia Hills and 60 in Garo Hills.

The State Govt. has set up an Industrial Development Corporation to promote, establish, undertake and implement industrial programmes having prospect of development in the region and also help the industries in the private sector. It also looks after the small-scale industries. The State also has decided to take the following steps in the industrialisation : (1) to give grant-in-aid and industrial loan to private sector; (2) establishment of industrial estates one in each district; (3) starting multi-purpose service workshop at Jaintia Hills ; (4) setting up of industrial township at Barmuhat in order to provide facilities of power, transport and machineries to intending industrialists in the State and (5) to survey the possibility of starting a paper mill in the Garo Hills and a newsprint mill in Khasi Hills.

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* This is a common capital for Assam and Meghalaya.

Cottage Industries : The cottage industries in the State are of traditional nature. These are bee-keeping, carpentry, black-smithy, sericulture and weaving, etc.

The State Government conducts training centres at Shillong, Jowai and Tura and helps financially the students, who had completed their courses in the above centres, in purchasing tools and implements to start business of their own.

EDUCATION

Educational Institutions: No. of Colleges : 14 ; Technical School : 1 ; High Schools : 81 ; Middle English Schools : 211 ; Senior Basic Training School : 4 ; Lower Primary Schools : 2,528. No. of Pupils : 132,918 (Boys : 70,231, Girls : 62,687).

PUBLIC HEALTH

Private hospitals : 4 ; General hospitals : 7 ; Primary Health Centres : 9 ; Dispensaries : 58 ; Doctors : 122 ; Nurses : 300 ; Beds : 1,195 ; Amount spent on medicines during 1970-71 : Rs. 656,826.

GENERAL

The hill State of Meghalaya was created under the Assam Reorganisation (Meghalaya) Act, 1969 of Parliament passed on December 24, 1969. It was inaugurated by Prime Minister Mrs. Indira Gandhi on April 2, 1970 as an autonomous State and subsequently was made a full-fledged State on January 21, 1972.

The population of Meghalaya predominantly consists of the Khasi, Jaintia and Garo tribals.

Cherrapunji, one of the urban centres of the State, claims to have the world's highest rainfall of 18,870 mms.

Rivers : The Bogapani, the Jadukata, the Kapili, the Digru and the Jinjiram.

Minerals : Meghalaya is rich in mineral resources. The mineral wealth of United Khasi and Jaintia Hills district include coal, sillimanite, limestone, unworked lithomarge, white clay and corundum. This area produces one-fifth of the State's output of coal and 95 per cent of India's total output of sillimanite.

The Garo Hills district is a potential mineralised area of the State. There are deposits of coal, limestone, fireclay and light coloured sandstone, which are virtually untapped. Plans have been made to exploit them but transport difficulties have so far been insurmountable.

PLAN OUTLAY

The outlay for 1971-72 annual plan of the State will be Rs. 79·5 million.

Central assistance for the Plan will be of the order of Rs. 74·4 million. The Fourth Plan of Meghalaya is of the order of Rs. 380 million.

The sectoral allocations for the annual Plan, 1971-72 (in Rs. million) are : agricultural programmes 13·1 ; cooperation and community development 4·0 ; irrigation and power 4·3 ; industry and mining 4·25 ; transport and communications 3·37 ; social services 16·15 ; and miscellaneous 4·05.

Plan outlay for 1972-73 is Rs. 82·50 million.

The approved outlay for the first three years of the Plan was Rs. 200 million and the actual expenditure was also the same.

MIZORAM

(Union Territory)

CAPITAL : Aizawl.

Area of the Territory: 21,067 sq. kms.; **Population :** 321,686; **Density :** per sq. km. 15 ; **Sex Ratio :** 1,018 females per 1,000 males ; **Literacy :** 50·91 per cent. (Male : 59·47 per cent, female : 42·50 per cent.)

Sub-Divisions: Aizawl : 12,590 sq. kms.; Lunglei : 6,004 sq. kms. ; Chhimtuipui 2,473 sq. kms.

Cities : With their population : Aizawl 31,436 ; Lunglei 5,730.

Boundaries : The Territory is bound by Cachar district of Assam in the north, Manipur in the north-east, Burma in the east, Bangla Desh in the south and west and Tripura in the north-west.

AGRICULTURE

Total geographical area : 2,106,088 hectares ; Area not available for agricultural use : 747,901 hectares ; Net area sown : 60,821 hectares ; Total cropped area : 63,767 hectares ; Area sown more than once : 2,940 hectares.

Paddy is the principal crop of the territory. Other crops grown are maize, cotton, groundnut, potato, ginger, orange and a sort of local tea. Cash crops like coffee, cocoa, rubber, cardamom and cashew nuts have recently been introduced as part of soil conservation scheme. Coffee cultivation has shown good results and is becoming popular.

Production : Area cultivated in hectares, Average yield in kilogram per hectare and Production in tonnes respectively : (1968-69) : Rice : 40,470 ; 1,152 ; 45,870 ; Sugarcane : 610 ; 32,288 ; 2,300 ; Potato : 200, 5,002 ; 1,010.

Land Tenure : There is no individual land-holding in Mizo Hills area and so far no tenure has been established. The land belongs to the village as a whole and the people practice shifting cultivation.

However, land is alloted by issue of panes for establishing gardens and terraces for permanent cultivation.

Forests : Reserved forests : 562·03 sq. kms. ; Protected forests : 31·08 sq. kms. ; Unclassed forests : 12,387·97 sq. kms.

INDUSTRIES

There is no major industry in the Territory. A few people are occupied in traditional cottage industries. The Mizos are good weavers. They produce lovely woollen carpets, but the production is very slow and not economic. They produce cane hats and baskets.

Workers : (1961) : Total No. of workers : 125,686 ; Cultivators : 109,518 ; Agricultural labourers : 33 ; Workers in mining, quarrying, livestock, forestry, fishing, hunting, plantation, orchard and allied activities : 535 ; Household industries : 5,656 ; Manufacturing industry : 984 ; Construction : 495 ; Trade and commerce : 998 ; Transport and communications : 742 ; Other services : 69,212; Non-workers : 140,377.

EDUCATION

Almost every village has a Government or a private school offering education from standards I to III in vernacular and English. As on June 30, 1972, over 90 per cent of the children of school going age attend school. There are about 53,000 students in the primary schools. The territory has 143 M. E. schools, 38 high schools and three colleges.

PUBLIC HEALTH (1971-72)

No. of hospitals : 7 ; Dispensaries : 34 ; Primary health centres : 3 ; Beds : 400. The territory has 102 group centres and each centre has been provided with a doctor, a nurse and a pharmacist.

COMMUNICATIONS

Communications have been a great problem in the Territory. Motorable roads exist between Aizawl, Silchar, Lunglei, Demagiri, Champhai and Saiha.

Length of roads : 1,058 kms. ; Black topped 740 kms.

GENERAL

On December 21, 1971, the Lok Sabha passed the Constitution (Twenty-seventh Amendment) Bill providing for a legislature and council of ministers for the Union Territory of Mizoram (former Mizo Hills district of Assam). The Bill provides special safeguards for the minority tribal groups. Mizoram was inaugurated by the Prime Minister Mrs. Indira Gandhi on January 21, 1972.

Rivers : Dhaleshwari, the Sairang, the Singla and the Kaladan.

Lakes : Palak, Tamdil and Rungdil.

The People: The word **Mizo** means highlander, **Mi** means person and **Zo** means Hills. The Mizos include a variety of tribes — the Lushais, Pawis, Paithes, Raltes, Phangis, Hmars, Kukis, Maras and Riangs and their home is in the Mizo Hills and some regions of Manipur, Tripura, Burma and East Bengal. Other Tribes in the region are the Chakmas and Tipras.

Among the Lushais the percentage of literacy is 86. The British missionaries introduced Christianity and scripted the Mizo language in Roman alphabet.

MYSORE STATE

CAPITAL : Bangalore. **Area :** 66·70 sq. kms. **Population :** 1,653,779.

Area of State : 191,773 sq. kms. **Population of State :** 29,299,014. **Density :** 153 per sq. km. **Sex Ratio :** 959 females per 1,000 males. **Literacy :** 31·54 per cent.

District	Area in '000 sq. kms.	Population
Bangalore	8·0	3,365,515
Tumkur	10·6	1,627,721
Chitradurga	10·9	1,397,456
Kolar	8·2	1,516,646
Bellary	9·9	1,122,656
Mysore	11·9	2,077,238
South Kanara	8·4	1,939,315
Coorg	4·1	378,291
Hassan	6·8	1,102,370
Shimoga	10·5	1,301,485
Chikmagalur	7·2	736,647
Mandya	5·0	1,154,374
Belgaum	13·4	2,423,342
Bijapur	17·1	1,985,591
North Kanara	10·3	849,105
Dharwar	13·7	2,342,213
Gulbarga	16·2	1,739,220
Bidar	5·5	824,059
Raichur	14·0	1,415,740

The headquarters of the districts are of the same name except for the following districts where the name of the headquarters are given in the brackets : South Kanara (Mangalore) ; Coorg (Mercara) ; North Kanara (Karwar).

MAJOR CITIES (Over 100,000 population)

Name	Area sq. kms.	Population
Bangalore	66·70	1,669,901
Hubli-Dharwar	41·18	379,166
Mysore	37·29	355,685
Mangalore	21·75	215,122
Belgaum	7·77	213,872
Gulbarga	23·31	145,630
Bellary	25·90	125,183
Davanagere	19·42	121,110
Bijapur	14·00	103,931
Shimoga	5·95	102,709
Bhadravati	(N.A.)	101,358
Kolar Gold Fields	(N.A.)	118,861

No. of Villages : 26,377.

State Boundaries : The State is bound by Kolhapur, Sangli, Sholapur, Osmanabad and Nanded districts of Maharashtra in the north, Medak, Hyderabad, Mahbubnagar, Kurnool, Anantapur and Chitoor districts of Andhra Pradesh in the east, Salem and Nilgiri districts of Tamil Nadu in the south-east, Kannanore district of Kerala in the south and Arabian Sea in the west.

State Language : Kannada (The process of switch-over from English to Kannada is continuing).

AGRICULTURE

(FINAL FORECAST FIGURES) 1971-72

Principal crops	Area (hectares)	Production (in tonnes)
Rice	1,120,186	2,097,116
Ragi	962,444	861,038
Jowar	2,419,650	1,861,438
Wheat	364,489	187,184
Total cereals	5,963,490	5,598,586
Gram	151,767	61,596
Total pulses	1,359,143	466,129
Groundnut	934,555	727,493
Sesamum	77,619	23,069

Principal crops	Areea (hectares)	Producton (in tonnes)
Total oil seeds	1,292,414	819,899*
Sugarcane	106,776	8,775,869
Cotton	1,077,452	568,574 (in bales of 180 kgs. each)

* Excluding coconuts.

Area under Land Utilisation in Hectares (1970-71) : Net area sown 10,197,408; Area sown more than once 596,494; Area under forests 2,868,415; Waste lands: (*a*) Land not available for cultivation 1,774,591; (*b*) Other uncultivated land excluding fallow land 2,572,211; Fallow land 1,525,843.

Land Ceiling : 10·9 hectares as in October 1965. 7·28 hectares from October 1965. A bill in favour of 4·8 hectares is pending before the legislature. (The ceiling figures relate to the first category of land only).

Irrigation — 1970-71 : Net area irrigated 1,144,477 hectares; Gross area irrigated 1,305,198 hectares.

Fisheries — 1969-70 : Fishermen engaged 111,016; Marine fish catch (tonnes) 102,922; Fresh water fish catch (tonnes) 59,850; Disposition of fish catch (tonnes) 102,922.

Irrigation and Power Projects : See chapter on Irrigation and Power.

MAJOR INDUSTRIES (in 1971)

Type of Industries	No. of factories existing	Production in tonnes
Iron and Steel	1	394,207*
Cement	4	1,225,557
Sugar	10	204,213
Paper	3	72,471
Vanaspati	5	5,311

* Production includes Pig iron & Ferro Alloys: 135,145 tonnes, Finished Steel 70,178 tonnes and Semi-finished Steel 188,884 tonnes.

Industrial progress has been satisfactory with number of factories going up from 1,635 in 1956 to 3,500 in 1970. Small industries too went up from 1,200 in 1961 to 5,000 in 1970 providing employment to about 100,000 people.

A decade ago, ancillary industries numbered only 50. Today their number has gone over 400.

Industrial Estates : (Government Estates) Industrial estates have been established in the following places, viz: Bangalore, Hubli, Belgaum, Mysore, Gulbarga, Harihar, Ramanagaram, Mangalore, Jamkhandi, Bijapur, Shiralakoppa, Mercara, Dandeli, Bellary, Kolar Gold Fields, Chikamagalur, Tumkur, Shimoga and Kadur.

Industrial Development Agencies : See chapter on State Corporations.

LABOUR

No. of Unions : There were 593 trade unions on register in 1969 out of which 215 unions submitted returns.

No. of Workers : Total No. of workers including farm labourers (1971 census) was 10·3 million.

Industrial disputes (1970-71) :

Strikes : (*i*) No. of strikes 88; (*ii*) No. of workers involved 44,340; (*iii*) No. of man-days lost 353,847.

Lockouts : (*i*) No. of lockouts 4; (*ii*) No. of workers involved 6,297.

Lay-offs : (*i*) No. of lay-offs 73; (*ii*) No. of workers involved 41,134; (*iii*) No. of man-days lost (N.A.).

Retrenchments : (*i*) No. of factories affecting retrenchment 24; (*ii*) No. of workers retrenched 907; (*ii*) No. of workers reinstated (N.A.).

Closures : (*i*) No. of closures 297; (*ii*) No. of workers affected 21,383.

EDUCATION (1971-72)

Type of Institution	No. of Institutions	Scholars	
		Boys	Girls
(*a*) No. of schools for general education :			
High schools	2,060	333,403	150,238
Middle schools	11,006	555,010	304,993
Primary schools	21,686	1,756,978	1,308,828
Nursery schools	807	34,625	29,252
Total (*a*)	35,559	2,680,016	1,793,311
(*b*) Schools for professional & special education :			
Agricultural schools	7	254	—
Commercial schools@	33	4,170	2,260
Music and dancing schools	51	1,142	2,497
Engineering schools including Polytechnics ..	29	4,682	732
Others	230	21,709	6,922
Total (*b*)	350	32,137	12,411
(*c*) Totals (*a* + *b*)	35,909	2,712,153	1,805,722
(*d*) No. of colleges for general education	202	111,373*	35,317
(*e*) No. of colleges for professional & technical education	100†	40,298	3,527

@ Excludes Commercial subjects like Accountancy, Book-keeping and other institutions for Type-writing and Shorthand.
* Includes Universities. † Includes Indian Institute of Science and Universities.

Universities : Bangalore University, Bangalore 560001, Karnataka University, Dharwar 580003, University of Agricultural Sciences, XI Main, 16th Cross Road, Malleswaram, Bangalore 560003. University of Mysore, Crawford Hall, P.B. No. 14, Mysore 570001, Indian Institute of Science, Bangalore 560012.

PUBLIC HEALTH (1971)

No. of Hospitals 195; (*a*) Government 124; (*b*) Local bodies 29; (*c*) Railways 3; (*d*) Others 39. Dispensaries 791. Strength of beds in hospitals and dispensaries 26,183.

No. of Medical Colleges : 9 ; Amount spent on medicine : Budget (1971-72) Medical: Rs. 92,499 million. Public Health : Rs. 102·605 million.

COMMUNICATIONS

No. of Vehicles: 123,259; No. of State Transport vehicles : 2,930 buses ; No. of passengers carried by S.T. : 904,000 daily.

The Passenger Transport Services are operated on 2,577 routes covering a daily schedule of 466,000 kms.; earning an annual revenue of Rs. 200 million and catering to the transport needs of more than 700,000 passengers every day all over the State (1970-71 statistics).

Length of roads (1970) : 64,207 kms. ; National Highways 1,269 kms. ; State Highways 6,749 kms. ; Major district roads 14,152 kms. ; Other district roads 9,485 kms.; Village roads 14,257 kms.

Total length of railway: 2,757 kms. including the Bangalore-Salem rail link. Metre gauge 2,062 kilometres ; Narrow gauge 154 kilometres.

The 198 kms. Hassan-Mangalore rail link has been included under the Central Sector of the Fourth Five-Year Plan. The 241 kms. Bangalore-Salem rail link has been completed.

No. of airports : 3 (Bangalore, Belgaum and Mangalore); No. of airstrips : 4.

Post and Telegraphs (1970-71) No. of Post offices 8,208 ; Telegraph offices 1,190. Telephone exchanges 283; Telephones 63,940.

PRESS

Leading Dailies with their circulation figures:

English : Deccan Herald, Bangalore 560001 — 61,076 ; Indian Express, Bangalore, 560001 — 49,971 ; *Kannada :* Prajavani, Bangalore 560001 — 70,470 ; Kannada Prabha, Bangalore 560001 — 49,231 ; Samyukta Karnataka, Bangalore 560025 — and Hubli, 59,174 ; Nav Bharat, Mangalore 575003 — 22,000.

GENERAL

Rivers : There are two great river systems in Mysore : that of the Krishna in the north and the Cauvery in the south. The only streams flowing west to the Arabian sea are those in the north-west, which, uniting in the Sharavati, hurl themselves down the Ghats in the magnificent Gersoppa or Jog falls.

Rivers that flow into the Krishna : the Tunga, the Bhadra, both these uniting in the Tungabhadra and the Hagari (or Vedavati).

Rivers that flow into the Cauvery : the Hemavati, the Lokapavani, the Shenisha, the Arkavati, the Lakshmantirtha, the Kabbani or Kapila and the Honnuhole or Suvarnavati.

Other Rivers: The Varada, the Kalinadi, the Gangavali, the Tadri, the Netravati, the Kumaradhari, the Gurpur, the Swarnanadi, the Sitanadi, the Malprabha, the Dharma, the Don, the Bhima and the Ghatprabha.

Major Natural Resources : Gold, silver, iron ore, chromite, china clay, limestones, corvandum, gamet, emery, asbestos, bauxite, fuller's earth, quartz, ochre, fellspar and silica.

NAGALAND STATE

CAPITAL : Kohima. **Area :** 7,209 sq. kms.; **Population :** 175,204

Area of the State : 16,527 sq. kms.; **Population of the State :** 516,449; **Density :** 31 per sq. km.; **Sex Ratio :** 871 females per 1,000 males; **Literacy :** 27·40 per cent.

Districts	Hqs.	Area in sq. kms.	Population
Kohima	Kohima	7,209	175,204
Mokokchung	Mokokchung	3,852	168,242
Tuensang	Tuensang	5,466	173,003

No. of Villages : 814.

State Boundaries : The State is bound by Assam in the west and north, by Burma in the east and Manipur in the south.

State Languages : In 1967 Nagaland Legislative Assembly passed a resolution adopting English as the official language of the State for administration and education. However, as the different tribes have different dialects, the common language used amongst them is Naga, Assamese and English.

AGRICULTURE

Main crop, production and area sown are given under the chapter on "Agriculture".

The major crop is rice which accounts for 80 per cent of the total output of foodgrain. There is also cultivation of cotton, jute, mesta, sugar-cane, tobacco, potato and sweet potato.

Average food production is 69,000 tonnes in a year.

Forests : Area : 2,896 sq. kms.; Reserved forests : 164·8 sq. kms. ; Protected forests : 518 sq. kms. Forests under Naga Hills Jhumland Regulation : 2,072 sq. kms.; Annual revenue from forests : Rs. 1·466 million.

Fisheries : Average annual catch from inland fisheries is 50 tonnes.

INDUSTRIES

The people in the villages depend mostly on their cottage industry for cloth. Yarn is made locally, though it is also imported.

The State has 573 industrial units. Dimapur, the main commercial centre, has a few small-scale manufacturing units mostly of the house-hold type and the rest of Nagaland depends on handicrafts. The villagers manufacture cloth, baskets, furniture, implements and other daily requirements.

Forest-Based Industries : Under the forest department a seasoning and treating plant has been set up at Dimapur at a cost of Rs. one million. It is expected to add a few saw mills and a joinery mill (for the manufacture of doors, windows, floor and ceiling boards, wall frames etc.) and a waste board mill for the manufacture of hard-board from saw-dust.

There is scope for a pulp and paper mill also.

The forests and jhumlands of Nagaland have enough raw materials to support hard-board and chip-board industries.

Labour : The number of working class including agricultural labourers was 219,310 according to 1961 census. Number of persons employed in mines during 1969 was 48,600.

EDUCATION

No. of Government Institutions : Lower Primary Schools 954 ; M. E. Schools 134 ; High Schools 36 ; Colleges : 2 ; Training Institutes for Teachers 3 ; Polytechnical School 1 ; Adult Literacy Centres 141 ; No. of Teachers in the Schools: 4,912.

Private Institutions : M.E. Schools : 34 ; High Schools ; 13 ; Colleges : Two.

PUBLIC HEALTH

General Hospitals : 26 ; T. B. Hospitals : 2 ; Primary Health Centres : 10 ; Sub-centres (under Primary Health Centres) : 21 ; School Health Service : 1 ; Health Education Programme : 1 ; Blood Transfusion : 1 ; Malaria Eradication Programme : 1 ; Small-pox Eradication Programme : 1 ; B.C.G. Teams : 3 ; T.B. Clinics : 3 ; S.E.T. (Leprosy) : 2 ; V.D. Clinics : 2 ; Beds in Hospitals : 1,028.

At present one medical unit covers an average of 176·12 sq. kms. and one hospital bed is available for every 515 persons. The anti-malaria and small-pox drives have made considerable progress.

COMMUNICATIONS

The railway cover only 8·04 kms. in the whole State and the main railway station is Dimapur, which is the gateway to Nagaland.

Roads : The length of roads under P.W.D. is 3,539 kms. National Highway 105 kms. and State highways 646 kms. Bus transport facility is available only on 1,460 kms. of roads.

No. of passengers carried daily by the bus services is 2,230 and haulage of goods is 50 tonnes.

GENERAL

The economy of the State is mainly based on agriculture. Revenue is derived from house tax and forest produce like bamboo, cane, timber, thatch and *agar* etc.

The development blocks play an important role in changing the economic structure of the State. The blocks are engaged in the distribution of improved seeds, chemical fertilisers, pesticides, improved implements etc. in the agricultural field.

Rainfall : The average rainfall in Kohima is 190·5 cms., in Wokha 254 cms. and in Mokokchung 282 cms. respectively.

Tribes : The main tribes in the State are : Angami, Sema, Lotha, Ao, Rengma, Chakhesang, Sangtam, Konyak Chang, Phom, Yimchungar, Khemungan, Zeliang and Kuki.

FOURTH PLAN

The approved Fourth Plan outlays (Rs. million) under different heads are as follows : Agricultural production : 17·8 ; minor irrigation : 2·5 ; animal husbandry : 12·5 ; forests : 11·0 ; fisheries : 3·0 ; co-operatives : 4·0 ; Community development programmes: 10·0 ; local development programmes : 3·0 ; power : 20·0 ; large and medium industries : 19·0 ; small and village industries : 24·0 ; mineral development 0·7 ; roads : 76·5 ; road transport : 12·5 ; tourism : 1·00 ; education : 43·1 ; research and cultural programmes : 1·00 ; health : 14·5 ; water supply : 12·00 ; housing : 5·00 ; town planning : 4·00 ; T.D. Blocks : 13·6 ; and others : 4·64.

ORISSA STATE

CAPITAL : Bhubaneswar. **Area :** 50·25 sq. kms. **Population :** 105,514.

Area of the State : 155,845 sq. kms. **Population of the State :** 21,934,827. **Density :** 141 per sq. km. **Sex Ratio :** 989 females per 1,000 males. **Literacy :** 26·12 per cent.

Districts : 13 (53 sub-divisions, 19 municipalities).

Name (Hqrs. in brackets), Area (sq. kms.) and Population respectively.

Balasore (Balasore) : 6,475 — 1,832,678 ; Baudh Khondmals (Phulbani) : 11,081 — 619,924 ; Balangir (Balangir) : 8,902 — 1,263,537 ; Cuttack (Cuttack) : 10,973 — 3,828,578 ; Dhenkanal (Dhenkanal) : 10,828 — 1,294,126 ; Ganjam (Chatrapur) : 12,517 — 2,291,667 ; Kalahandi (Bhawanipatna) : 12,080 — 1,163,488 ; Keonjhar (Keonjhar) : 8,302 — 955,290 ; Koraput (Koraput) ; 26,695 — 2,041,516 ; Mayurbhanj (Baripada) : 10,418 — 1,429,664 ; Puri (Puri) : 10,355 — 2,339,382 ; Sambalpur (Sambalpur) : 17,518 — 1,844,180 ; Sundargarh (Sundargarh) : 9,716 — 1,030,813.

Major Cities : Name, Population and Area in sq. kms. respectively.

Cuttack : 194,036 — 59·57 ; Rourkela : 172,536 — 95·31 ; Berhampur : 117,635 — 22·27 ; Bhubaneswar : 105,514 — 50·25.

No. of Villages : 52,125 (1961).

State Boundaries : It is surrounded by the Bay of Bengal in the east, Madhya Pradesh in the west, Andhra Pradesh in the south, Bihar in the north, and West Bengal in the north-east.

AGRICULTURE

Orissa has a total cultivable area of 8·09 million hectares. Seventy per cent of the cropped areas is under foodgrains. Apart from rice, turmeric, castor, jute (and mesta) in respect of which the State's share is 10, 17, 11, 7 per cent respectively in the country's total output, the States agriculture hardly makes any contribution to the national economy. This is because the farmers are too poor to adopt modern methods of agriculture. Production of oilseeds is 198,000 tonnes, jute 36,000 tonnes and sugarcane 191,000 tonnes. Almost 74 per cent of the people of Orissa live on agriculture.

(For further details see main chapter on Agriculture).

Land Reforms : The important steps taken for agrarian reforms include : Abolition of intermediaries (as many as 370,000 out of a total of 420,000 have been abolished). The tenants now hold tenancies under the Orissa Estates Abolition Act. The bulk of the remaining 50,000 estates are Trust Estates or Religious Endowments. The system of collection of rent by hereditary village headmen (karjis and karnams) has also been abolished. Land revenue has been abolished from 1st April, 1967. The provisions in the Land Reforms

Act relating to fixation of land ceiling are still sub-judice. In case it is decided in favour of State Government, about 708,200 hectares of surplus land can be taken over by Government.

Forests : Forests cover almost 40 per cent of the total area in Orissa. Forests yield timber, firewood, bamboo, Kendu leaves, charcoal, honey, wax, resins, cane, tussar cocoons, arrowroot, simli cotton, cashew etc. Of late Sal seeds have been tapped for oil. Orissa Forest Corporation Ltd., was set up in 1962, and its activity engulfs 20 per cent of the forests.

Animal Husbandry : An Intensive Cattle Development Block with a cattle population of 100,000 was established at Phulnakhara to feed the milk plant there. Another Intensive Cattle Development Block covering a breedable cattle population of 50,000 cattle is being set up.

Cattle breeding, feeding and disease control is handled by 19 key village blocks, with 194 key village units in the State. 2 more key village blocks with 26 units were proposed for 1971–72.

306 Artificial Insemination Centres for cattle breeding are functioning in the State and 20 more were to be opened in 1971–72.

8 livestock breeding farms at Chiplima, Khapuria, Bhanjanagar, Balangir, Boudh, Keonjhar, Kalahandi and Sundargarh have been established for production of seed bulls. One more breeding farm was scheduled for 1971–72.

A Seed Production Farm has been set up at Chiplima to improve fodder.

For treatment and control of cattle diseases, 333 veterinary hospitals, and 1,159 stockman centres are working in the State. 10 more dispensaries and 12 more stockman centres were to be set up in 1971–72.

Biological Products Institute produces sera and vaccines for the control of cattle diseases.

A sheep breeding farm is in existence at Chiplima and another at Balangir.

Dairying : A milk plant at Phulnakhara is functioning with a capacity of 6,000 litres of milk per day, for supply of wholesome milk to the people of Cuttack and Bhubaneswar. A pilot scheme for collection and marketing of milk has been established at Kaimati in Dhenkanal with private sector.

Poultry : A State Poultry Farm at Angul, two regional Poultry Farms at Koraput and Sundargarh and Poultry Farms at Bhanjanagar, Balangir, Similiguda and Bhubaneswar are functioning in the State. Six Poultry Feed Mixing Centres have been established to supply balanced poultry feed to Government and private poultry farms in the State. A research programme to evolve high productive strains was proposed for 1971–72. Besides expansion of the existing poultry farms, expansion of Poultry Extension Centre into that of District Poultry Farm and revival of 10 poultry units will be taken up this year. For poultry development in the private sector, 2 intensive Egg and Poultry Production-cum-Marketing Centres at Rourkela and Cuttack-Bhubaneswar are functioning.

Fisheries : Chilka lake is being developed for fisheries at a cost of Rs. 130 million.

Irrigation and Power Projects: Please see the chapter on Irrigation and Power Projects.

ELECTRICITY

The present installed capacity of power generation is 560 megawatts. This is expected to go up to 920 megawatts by the end of the Fourth Plan, with the completion of Balimela project. At present Chiplima and Talcher are the main power stations. Construction of Indravati and Upper Kolab hydro-electric projects are also under active consideration. A massive programme of distribution and transmission is being taken up.

About 98 per cent of the total power generation is consumed by a few giant industries in the State and only two per cent is available for non-industrial purposes. As a result only 3 per cent of the villages have been electrified.

INDUSTRIES

Industrially 8 of the 13 districts are backward. However, the Industrial Development Corporation is promoting new industries including a nylon plant, an automobile tyre and tube project, soda ash, and ammonia chloride plant and engineering units. During 1972-73, seven industrial licences or letters of intent were issued for setting up a solvent extraction plant, a paper plant, an aluminium ingot plant, a fertiliser plant, a calcium carbide plant, and a graphite crucible plant. SIDC is also setting up a sponge iron plant, a dichromate plant, ferrovandium plant, a coke and pig iron complex etc.

Large-scale Industries : There are eight manufacturing units under the Industrial Development Corporation: Kalinga Iron Works, Barbil; Hira Cement Works, Bargarh; Hira Cable Works, Hirakud; Rerolling Mills, Hirakud; Ferro-chrome Plant, Jajpur; Tile Factory, Choudwar; Hirakud Industrial Works, East Coast Industries, Sumandi.

The other industries are : Textiles ; Cement ; Refrigerators ; Paper ; Glass ; Sugar ; Iron and Steel ; Potteries ; Spinning Mills ; Tube Mill ; Refractories and Pipes ; Ferro-manganese ; Chlorine and Caustic Soda ; Low Shaft Furnace ; Structural Transmission Towers ; Coil and Coil Products ; Aluminium Ingots ; Aluminium Cables ; Steel Reinforced ; Cast Iron Specials ; Cast Iron Spun Pipes ; Cast Iron Castings ; Ferrosilicon and Ferrochrome

Small and Cottage Industries : Small and Cottage industries with their locations in brackets :—Biscuit and Confectionery (Cuttack, Berhampur, Rourkela) ; Steel products (Parlakhimedi, Cuttack) ; Salt (Ganjam, Puri, Cuttack) ; Fire Bricks (Rajgangpur, Barang, Jharsuguda, Sambalpur) ; Foundry (Tapang, Berhampur, Dhanmandal, Cuttack, Bhubaneswar, Rourkela, Baripada, Sambalpur, Balasore) ; Woodwork (Cuttack, Bhubaneswar, Baripada, Jharsuguda) ; Tannery (Baudh, Titlagarh); Footwear (Puri, Berhampur, Cuttack); Roofing Tiles (Cuttack, Puri, Ganjam and Sambalpur) ; Radio & Electricals (Cuttack, Rourkela) ; Glazed Porcelain (Barang, Rourkela) ; Agricultural Implements (Cuttack) ; Car Batteries (Cuttack) ; Cycle parts (Cuttack) ; Paints, Chemicals and Pharmaceuticals (Cuttack) ; Tin Containers (Parlakhimedi, Cuttack) ; Sports Goods (Cuttack) ; Mathematical Instruments (Berhampur) ; Aluminium Utensils (Cuttack, Puri, Rourkela) ; Re-Rolling and Steel Fabrications (Cuttack) ; Boats and Launches (Cuttack) ; Buckets (Rourkela, Cuttack) ; Hard Boards (Cuttack) ; Filigree (Cuttack) ; Horn Works (Cuttack, Parlakhimedi) ; Handloom (Sambalpur and almost throughout the State) ; Eri and Tassar rearing (Sambalpur, Balangir). The State is famous for its Bell Metal and Brass works. Other cottage industries are : blacksmithy, coir products, soap and phenyl, carpentry, pottery, wooden and sea-shell toys (Puri), stone carving (Puri), ivory etching, paddy husking. There are nearly two hundred rice mills throughout the State.

Industrial Belts : I. (*a*) Rourkela-Bonai-Talcher-Cuttack-Paradeep ; (*b*) Nayagarh-Tomka-Daitari-Paradeep ; II. Rourkela - Rajgangpur - Jharsuguda - Balangir - Rayagada-Koraput-Visakhapatnam.

Industrial Development Agencies (See chapter on State Corporations).

LABOUR

No. of Employment Exchanges (January 1971) — 15; No. of Registrations (affected April 1970 to January 1971) — 131,052; No. of vacancies notified during that period — 22,864; No. of submissions made (during April 1970–January 1971) — 143,062; No. of placements affected (during April 1970 — January 1971)— 10,711; No. of applications on live register at the end of January 1971 — 153,841.

No. of Unions on register — 195; Membership of Unions (submitting returns) — 82,000; No. of Unions submitting returns — 100.

No. of industrial disputes (1970) — 19; No. of workers involved — 4,897; No. of man-days lost — 84,297.

No. of working factories in the State (1969) — 1,049; No. of workers employed — 71,000; No. of multipurpose Labour Welfare Centres — 21; No. receiving benefits under the E.S.I. Scheme upto end of January 1971—36,086.

Panchayat Raj : There are 3,831 Gram Panchayats covering a population of about 16·4 million in about 5,100 villages (after the re-organisation in 1967). Number of Panchayat Samities: 314.

Panchayat Raj was inaugurated throughout the State on January 26, 1961. Under the reorganisation scheme in 1967, the Zilla Parishads at the top of the three-tier system were abolished.

EDUCATION

Enrolment of students in the age-group, 6-11, 11-14 and 14-17, was 1·97 million, 0·36 million and 0·21 million respectively.

No. of Schools: Primary: 20,000; Higher Primary (Class VI and VII) 4,000; and Secondary 900. *Teachers:* Primary 53,318; Higher Primary 14,648; and Secondary 11,826.

The number of students enrolled in 83 colleges under the 3 Universities (excluding Orissa University of Agriculture and Technology) is 32,618; Teachers' Training Colleges 4; Engineering Colleges 3; and Engineering Schools 4.

Technical Education : There is one Regional Engineering College at Rourkela besides the University College of Engineering at Burla with an intake capacity of 200 and 180 respectively. There are 4 polytechnics and one Mining Engineering School and one polytechnic with an intake capacity of 995. A polytechnic for women at Rourkela has started functioning.

Universities

1. *Berhampur University, Berhampur.* (established under Orissa Act 21 of 1966) — has 16 affiliated colleges, 7 University departments with an enrolment of 6,678 and 231 respectively.

2. *Utkal University, Bhubaneswar* — has 43 affiliated colleges and 20 teaching departments (including a law college at Cuttack and an evening college at Bhubaneswar).

3. *Sambalpur University, Sambalpur* — has 28 affiliated colleges.

4. *Orissa University of Agriculture and Technology, Bhubaneswar* has 4 constituent colleges.

(For further details about universities see chapter on Education).

PUBLIC HEALTH

There are 900 allopathic hospitals and dispensaries in the State, their total bed strength being 11,000. There are 3 medical colleges at Cuttack, Burla and Berhampur with a total intake of 400. The total bed strength of 3 medical college hospitals is 2,630. There is a Mental Health Institute at Cuttack the bed strength of which will be increased to 100 during the Plan period. There are two children's hospitals at Cuttack and Bhawanipatna. There are 2 Pharmacy Training Centres, but only one was functioning in 1972. Government is contemplating starting a pharmacy college for B. Pharm. courses. There are about 5,000 registered doctors and about 3,500 nurses and midwives in the State.

Family Planning : There are 55 Urban Family Planning Centres and 60 Static Sterilisation Units. Rural Family Planning Centres are functioning in each of the 314 Primary Health Centres and 936 sub-centres thereunder. Two regional Family Planning Centres are functioning at Cuttack and Sambalpur. Besides 10 Midwives Training Centres, and one Lady Health Visitor Training School has been opened at Berhampur.

Indigenous Systems : A directorate of Ayurveda and Homoeopathic medicines has been created since 1968.

There are 133 Ayurvedic dispensaries, 2 Ayurvedic hospitals, 16 subsidised Ayurvedic dispensaries, and 1 Ayurvedic Pharmacy functioning in the State. Another Ayurvedic Hospital at Bhubaneswar with 30 beds is going to be opened shortly. Gopabandhu Ayurveda Mahavidyalaya, Puri, trains Ayurveds.

A State Homoeopathic Board registers homoeopaths. A homoeopathic college has an intake of 25. There is a hospital with 24 beds at Bhubaneswar and about a 100 homoeopathic dispensaries in the State.

COMMUNICATIONS

Roads : Schemes costing over Rs. 210 million during the Fourth Plan period have been approved for the National Highways in Orissa. To improve roads in rural areas Rs. 9·5 million have been provided.

State sector outlay on roads and road transport in 1971–72 was Rs. 34·7 million. There are 1,436 kms. of national highways, 2,297 kms. of State Highways, 5,184 kms. of major district roads, 67 kms. of Expressway I, 12 km. of Expressway II, 8,900, kms. of other district roads, and 6,481 kms. of rural roads.

Road Transport : The State Transport Service operates 265 routes covering 70,067 kms. The effective fleet strength of the State Transport Service is 470. It carries 76,675 passengers daily and its daily earnings amount to Rs. 120,572.

All the district headquarters have been connected with the State capital by express services.

Ports : *Major Port:*—Paradeep (Cuttack District); biggest in the country, it can receive bulk-carriers of 60,000 tonnes.

Minor Ports:—Chandbali (Balasore District) and Gopalpur (Ganjam District).

See also chapter on "Ports" for details.

Railways : Orissa had 1,570 kms of broad guage and 143 kms. of narrow guage railway line.

Press (Leading dailies with circulation figures).

English:—Amrit Bazar Patrika, Cuttack, Circulation, included in the Calcutta edition. *Oriya:* Samaj, Cuttack, 42,266; Prajatantra, Cuttack, 12,280; Matrubhumi, Cuttack, 12,212; Swarajya, Cuttack 10,276.

GENERAL

Important Rivers : The Suvarnarekha, the Vaitarni, the Brahmini, the Mahanadi, the Indravati, the Sabri, the Sileru and the Rushikulya.

Important Lake : Chilka.

Minerals : Orissa's mineral potential is enormous. Her reserves of Iron Ore, Manganese Ore, Chromite, Limestone and Graphite are among the very best in India. The minerals which are worked in large quantities include besides those stated above, Coal, Dolomite Galena, Fire clay and China Clay. Deposits of Bauxite, Vanadiferous Magnetite, Kyanite, Asbestos, Soapstone and Mica also occur in the State.

FOURTH PLAN

With the resources in sight, the outlay of the State's Fourth Five Year Plan is estimated to be Rs. 2,230 million. State's annual Plan (1972–73) will have an outlay of Rs. 1,026·3 million.

PONDICHERRY

(Union Territory)

CAPITAL : Pondicherry. **Area* :** 3·88 sq. kms. **Population :** 90,367.

Area of the Territory : 479·2 sq. kms. **Population of the Territory :** 471,347 ; **Density :** 982 per sq. km. ; **Sex Ratio :** 990 females to 1,000 males. **Literacy:** 43·44 per cent.

District	Area in '000 sq. kms.	Population
Pondicherry	0·3	339,931
Karaikal	0·2	100,003
Mahe	0·01	23,122
Yanam	0·02	8,291

Pondicherry (with Karaikal, Mahe and Yanam) is divided into 16 communes.

Pondicherry consists of : (1) The Eastern Coast : (*a*) Pondicherry (Capital) divided into 8 communes is an enclave in the district of South Arcot in Tamil Nadu. (*b*) *Karaikal :* divided into 6 communes ; it is at a distance of 150 kms. from Pondicherry and is an enclave in the Tanjore district. (*c*) *Yanam :* Situated in the delta of the Godavari, is an enclave in the district of East Godavari in Andhra Pradesh. (2) *Mahe :* Mahe on the west coast consists of the town of Mahe on the left bank of the river Mahe, is an enclave in the district of Cannanore in Kerala State.

No. of Villages : 388.

State Languages : French, English, Tamil, Malayalam and Telugu.

AGRICULTURE

The production of foodgrains in 1971-72 was 111,000 tonnes.

Main crops, their production and area sown respectively are tabulated below :

Main Crop Type	Production (tonnes)	Area sown (estimated referring to 1970-71) in hectares
1. *Food crops :*		
a) Paddy	101,500	34,500
b) Cumbu	3,200	1,860
c) Cholam	750	250
d) Ragi	3,800	2,005
e) Other millets ..	550	350
f) Pulses	1,200	4,800
g) Sugarcane ..	180,000	1,858
2. *Area under Orchards*	—	2,800

Dairying : The Co-operative Milk Supply Society at Pondicherry and Karaikal supply about 12,000 litres of milk daily.

Poultry : Pure white leghorn and Hi-line chicks were purchased for breeding and to increase the egg production respectively. Feed mixing and grinding plant was installed at the State Poultry Farm, Kariamanickam. Egg production in the Poultry Farms increased from 86,031 during 1969-70 to 178,347 during 1970-71. Birds and feed were distributed at subsidised rate to 187 poultry breeders during 1970-71.

Irrigation : Lift Irrigation Scheme has been introduced in Karaikal which is a delta of the Cauvery at a cost of Rs. 383,000 to turn 136·37 hectares of dry land into wet.

ELECTRICITY

The entire requirement of power for Pondicherry and Karaikal regions is obtained from the Tamil Nadu Electricity Board and for Mahe region from the Kerala State Electricity Board. The Andhra State Electricity Board is in direct charge of catering power to consumers in Yanam.

Electricity purchased during 1971-72 was 101·23 million units.

Region-wise per capita consumption of power : Pondicherry : 238·136 ; Karaikal : 55·629 ; Mahe : 32·234 ; Overall : 185·53.

MAJOR INDUSTRIES

Type of Industry	Name of Units	No. Employed	Production
Textiles	Anglo French Textiles, Pondicherry	4,800	Cloth 47,285,977 metres Yarn 7,333,000 kgs.
	Swadeshi Cotton Mills, Pondicherry	2,200	Cloth 13,671,081 metres
	Bharathy Mills, Pondicherry	740	Cloth 2,444,446 metres Yarn 1,352,620 kgs.
	Soundararaja Mills, Nedungadu, Cannanore	156	Yarn 469,455 kgs.
	Spinning and Weaving Mills, Mahe	276	Yarn 50,331 kgs.

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* Urban area of Pondicherry.

Type of Industry	Name of Units	No. Employed	Production
Chemical	Government Distillery, Pondicherry	89	699,150 Litres of 37% alcohol
Food products	New Horizon Sugar Mills, Ariyur, Pondicherry	928	16,385·3 tonnes of Sugar

SMALL SCALE AND COTTAGE INDUSTRIES

Mechanical 143 ; Electrical 7 ; Electronics 1 ; Chemicals 91 ; Ceramics 15 ; Glass 3 ; Plastics 3 ; Food processing 15 ; Wood based 28 ; Rubber based 1 ; Paper based 11; Leather based 5 ; Cement based 2 ; and Miscellaneous 116 ; Total : 441.

Industrial Estates (Government Estates) : Industrial Estate, Thattanchavady, Pondicherry 605006. Rural Industrial Estate, Manapet, Pondicherry. Rural Industrial Estate, Kottucherry, Karaikal.

Industrial Development Agencies :

(1) The Raw Materials Depot of National Small Industries, Thattanchavady.

(2) The Tamil Nadu Industrial Investment Corporation, Madras.

LABOUR (As on March 31, 1972)

No. of registered unions : 47 ; No. of workers : 17,162 ; No. unemployed : 11,968 ; No. employed in factories and workshops : 35,676 ; No. of disputes : 1 .

EDUCATION

Schools (as on August 1, 1972)

	No. of Schools	No. of pupils	Teachers
Nursery	47	2,507	57
Primary	286	30,641	842
Middle Schools ..	82	32,981	968
Secondary Schools	50	29,345	1,134

Colleges

	No. of Colleges	Students	Teachers
Gen. Education	8	4,194	451
Medical ..	1	584	157
Law	1	82	3

Professional Institutions

Name	No. of Institutions	Students
Polytechnic	1	195
Teachers' Training Centres ..	2	189
Junior Tech. School	1	177
Nursing	1	80
School for Embroidery, Needle Work, Dress Making ..	1	98
Pre-vocational Training Centres	4	380
School for the Blind	1	7
School for Deaf and Dumb ..	1	25

Universities : Nil.

Amount spent on Education (1972-73) : Rs. 19·428 million.

PUBLIC HEALTH

No. of Hospitals (Maternity-Private) 1 ; (Government) 8 ; Dispensaries : 22 ; Primary Health Centres : 11 ; Chest Clinic : 1 ; T.B. Sub-centres : 2 ; Filaria Control Units : 2 ; Leprosy Control Units : 2 ; Sub-centres : 30 ; No. of beds : 1,347 ; No. of Doctors : 163 ; No. of Nurses : 217 ; Bed population ratio : 1 : 350 ; Doctor Population ratio : 1 : 2890 ; Amount spent on Medicine : Rs. 2·30 million.

COMMUNICATIONS

No. of Vehicles : 2,819. Length of Roads (Government) : 456·13 kms. ; Motorable (Metalled) Roads : 400·97 kms. No. of Railway Stations : 7.

CO-OPERATION : (As on June 30, 1971) :

Total number of co-operative societies : 180 ; Total membership : 52,871 ; Total working capital : Rs. 40·029 million.

GENERAL

Rivers : In Pondicherry : The Gingee 30·215 kms. ; the Pambayar 11·500 kms. ; the Guduvayar 13·500 kms. ; the Malatar 25·500 kms. ; the Ponniar 14·000 kms.

In Karaikal : the Nandalar 15·165 kms. ; the Nattar 12·600 kms. ; the Vanjiar 12·300 kms. ; the Noolar 14·000 kms. ; the Arasalar 11·760 kms. ; the Thirumalai Arasanar 10·650 kms. and the Pravadayanar 5·600 kms.

In Mahe : The Mahe 114·3 m. width—running for 1 km. length in the Territory.

In Yanam : The Coringa 15·240 m. in width running for 4 kms. length in the Territory ; the Godavary 3,048·000 m. in width running for 8 kms. length in the Territory.

Lakes : Oussuteri 540·17 m. cft. and Bahour 200·00 m. cft.

FOURTH PLAN

The Fourth Plan outlay for Pondicherry is Rs.125 million. Expenditure during 1970-71 comes to about Rs. 23·8 million. The actuals during 1971-72 were Rs. 26·6 million.

The outlay of Annual Plan 1972-73 of Pondicherry is Rs. 34·848 million. The distribution of the outlay (in million of rupees) among various sectors of development is : Agricultural programmes 7·50 ; Co-operation, Community Development and Panchayats 1·508 ; Irrigation and Power 3·797 ; Industries and Mining 2·551 ; Transport and Communications 2·912 ; Social Services 16·396 ; Miscellaneous 0·184.

AUROVILLE TOWNSHIP PROJECT

The project has the approval of the Government of India and UNESCO. It will house 50,000 residents and is expected to be completed in 15 to 20 years. The township is sponsored by the Sri Aurobindo Society. The township is 5 kms. from Pondicherry and will have an area of 20 sq. kms.

Conditions to live there : One has to be convinced of the essential unity of mankind and have the will to collaborate in the material realisation of that unity.

Foundation : Was laid on February 28, 1968, and one kilogramme of earth was flown by an Air France jetliner from the following 20 cities: Paris, Rio de Janeiro, Washington, Dakar, Tananarive, Tokyo, Mexico, Teheran, Algiers, London, Rome, Cologne, Brussels, The Hague, Stockholm, Athens, Tel Aviv, Cairo, Nairobi and Ottawa.

Construction Work : The plan of the city has been drawn up by a consortium of French architects and the labour is provided by young men and women from all over the world who are not paid but provided food and necessities of life.

PUNJAB STATE

CAPITAL : Chandigarh. **Area :** 100 sq. kms. **Population :** 233,004 (Urban).

Area of the State : 50,376 sq. kms. **Population of the State :** 13,472,972 ; **Density** per sq. kms. : 268 ; **Sex Ratio :** 1,000 males to 873 females ; **Literacy :** 33·39 per cent.

Districts	*Area sq. kms.*	*Population*
Amritsar	5,100	1,822,606
Gurdaspur	3,500	1,219,962
Hoshiarpur	3,900	1,035,900
Jullundur	3,500	1,446,307
Ludhiana	3,800	1,410,168
Bhatinda	4,959	1,313,677[**]
Ferozepur	6,102	1,899,990[**]
Patiala	4,600	1,212,399
Sangrur	5,200	1,142,854
Rupar	2,100	542,059
Kapurthala	1,600	427,050
Faridkot	5,483	1,100,000

NOTE : The names of the districts and district headquarters are the same.

Major Cities (Over 100,000 population) :

Name	*Area in sq. kms.*	*Population*
Amritsar	33·67	432,663
Ludhiana	19·65	401,124
Jullundur	44·03	296,103
Patiala	33·67	151,903

No. of Villages : 12,890 (inhabited : 11,947 ; uninhabited : 943).

Towns : 108.

State Boundaries : The State is bound by Pakistan in the west, Jammu & Kashmir in the north, Himachal Pradesh in the north-east, Haryana in the south and Rajasthan in the south-west.

State Language : Punjabi.

AGRICULTURE (1971-72) :

Main Crop	Production (tonnes)	Area Sown (hectares)
Wheat	5,078,000	2,276,000
Rice	685,000	389,000
Bajra	243,000	207,000
Maize	867,000	534,000

Please see chapter on 'Agriculture' for more details.

Land Ceiling : Seven hectares in case of irrigated land capable of producing two crops in a year, 11 hectares in case of irrigated land capable of producing one crop, 20·5 hectares in case of barani land and 21·8 hectares in case of banjar land.

Livestock (1969) : Cattle : 3·12 million ; Buffaloes : 2·936 million ; Sheep and Goats : 1·048 million ; Other livestock : 260,000 ; Total livestock : 7·36 million.

Dairying : Two dairy plants, one each in Amritsar and Chandigarh with daily capacity of 80,000 and 20,000 litres respectively have been established. The milk powder factory at Amritsar produces infant milk food.

Poultry : The State has ten poultry breeding farms and a net work of 45 poultry extension service centres. Total poultry in the State is estimated to be about 3 million.

Animal Husbandry : There are 231 veterinary hospitals and 244 dispensaries functioning in the State. An outlay of Rs. 45·00 million has been earmarked in the State's Fourth Plan for development of livestock.

Irrigation & Power Projects : Please see under the main chapter on 'Irrigation and Power Projects'.

INDUSTRIES

Major industries of the State are : Art silk, woollen and cotton Textiles, fertilisers, bicycle parts, bicycles, sewing machines, sugar, cement, flour mills, electrical appliances, automobile ancillaries, industrial tools, agricultural tractors and large number of small-scale industries.

Major public sector undertaking in the State is the Fertiliser Corporation of India.

Production (1969–70) : Cotton textiles : 162·46 million metres ; Cycles : 501,427 ; Sewing machines : 87,433 ; Woollen textiles : worth Rs. 132·112 million ; Agricultural implements and machine tools : worth Rs. 163·1 million ; Non-ferrous metal industries : worth Rs. 10·9 million ; Steel re-rolling : 174,256 tonnes ; Wood and machine screws : worth Rs. 7·534 million ; Scientific instruments : worth Rs. 185,000 ; Hosiery : worth Rs. 104·2 million ; Powerloom weaving : worth Rs. 164·9 million ; Machine embroidery : worth Rs. 11·2 million ; Cotton ginning and processing : 2·36 million bales ; Sports goods : worth Rs. 20·116 million ; Resin and Turpentine : worth Rs. 29·337 million.

The State has 63 large and about 59 medium industrial units involving a total capital investment of about Rs. 1,129·10 million.

No. of joint stock companies : 736.

Small-scale industries : Punjab occupies a prominent position in the small sector with about 22,000 units in the State out of a total of 100,000 units in the country with a turnover of Rs. 38·802 million during 1970-71.

Industrial Development Agencies : (Please see chapter on State Corporations).

Labour (1971) : Total workers : 3,880,937 ; Cultivators : 1,659,229 ; Agricultural Labourers : 777,230 ; Other Workers : 1,444,478 ; No. of working factories : 4,149[*] ; No. of workers in working factories : 106,970[*] ; No. of motor transport undertakings : 91 ; No. of persons employed : 6,323 ; Average daily employment in manufacturing industries : 54,000 ; Per capita annual earning of workers in manufacturing industries Rs. 2,070.

Labour Unions (1970) : on register 611 ; No. of Unions submitting returns : 375 ; Membership of unions submitting returns : 119,148 ; No. of trade unions submitting returns under State sphere : 93 ; Membership : 30,598 ; No. of unions submitting returns under Central sphere : 5 ; Membership : 653.

Industrial injuries in factories 2,473 (fatal 23 ; non-fatal 2,450).

Industrial Disputes (1970) : No. of disputes : 2830 ; No. of workers involved 38,067 ; No. of man-days lost : 104,161.

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[*] Figure relates to 1969 in working factories including Government and local fund factories.

[**] Population figures were taken before the formation of Faridkot which was carved out of Bhatinda and Ferozpur districts.

Industrial disputes in the public sector during 1969 : 4 ; No. of workers involved : 299 ; No. of man-days lost : 714.

No. of disputes referred to industrial relations machinery (1970) : 2,542 ; Disputes referred for adjudication : 680 ; Disputes referred for arbitration : 20 ; Awards given in favour of workers : 328.

EDUCATION (1970-71)

	Schools	Students
Primary	7,212	1,431,300
Middle	966	470,271
Higher Secondary	1,191	186,000

Colleges : No. of Arts, Science and Commerce Colleges : 160 ; Technical and Professional colleges : 49 ; Other colleges : 9 ; Teachers' Training Colleges : 16 ; Students in Colleges : 145,000.

Universities : Guru Nanak University, P.O. Box 111, Amritsar ; **Punjab University,** Chandigarh, No. of students : 168,630 ; **Punjab Agricultural University,** Ludhiana, No. of students : 2,460 ; **Punjabi University,** Patiala.

A sum of Rs. 210·00 million has been provided for general education during the Fourth Plan.

PUBLIC HEALTH

No. of Hospitals : 118 ; Primary Health Centres : 127 ; Dispensaries : 289 ; Ayurvedic and Unani dispensaries : 259 ; No. of Beds : 11,110 ; No. of Doctors : 5,180.

COMMUNICATIONS

No. of vehicles : 51,119 ; Public service vehicles : 3,035 ; Motor cabs : 513 ; Auto-rickshaws : 648 ; jeeps : 1,675 ; Goods vehicles : 9,263 ; Motor cycles : 17,934 ; Private motor cars : 8,431 ; Miscellaneous vehicles : 9,620.

Roads* : National Highways : 525 kms. ; Length of extra-municipal roads maintained by Government departments other than Public Works Department and Local Bodies :—Surfaced 267 kms. ; Unsurfaced : 14,094 kms. ; Length of extra-Municipal roads maintained by Public Works Department, Local Bodies and those constructed by Community Development Blocks :—Surfaced 14,892 kms. ; Unsurfaced 50,382 kms. ; Kacha roads constructed in the CD & NES Blocks : 45,091 kms. ; Length of extra-municipal roads maintained by Public Works Department :—Black top 6,300 kms. ; Cemented/Concreted : 1 ; Unsurfaced : 800 ; Length of Extra-Municipal roads maintained by local bodies — Black top 339 kms. ; Unsurfaced motorable : 1,761 kms.

Press : (Leading Dailies)

Name	Town	Language	Circulation
Tribune ..	Chandigarh	English	96,209
Punjab Kesari	Jullunder	Hindi	16,055
Ajit	-do-	Punjabi	15,203
Hind Samachar	-do-	Urdu	31,164
Pradeep ..	-do-	Urdu	28,663

GENERAL

Co-operation: Almost 100 per cent villages are covered by co-operatives taking almost 80 per cent of rural population within its fold.

See chapter on 'The Co-operative Movement' for further details.

Proposed Plan : Credit expansion ; construction of godowns and marketing development.

Panchayats : The entire State is covered by panchayats. A total area of 234,646 hectares of Shamlat land is vested in the panchayats in the State. Of this 76,546 hectares of land is cultivable and 158,120 hectares non-cultivable. By leasing out the cultivable land the panchayats derive an income of Rs. 779,586 per annum.

The Fourth Five-Year Plan includes only one scheme to benefit panchayats. This relates to the financial assistance to the panchayats for expenditure on revenue earning schemes with a total outlay of Rs. 5 million.

Rivers: The Beas, the Sutlej, the Ravi and the Saraswati.

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* Includes length of roads in Haryana State.

RAJASTHAN STATE

CAPITAL : Jaipur. **Area:** 64·75 sq. kms. **Population:** 615,258.

Area of State : 342,214 sq. kms. **Population of State :** 25,765,806. **Density :** 75 per sq. kms. **Sex Ratio :** 911 females per 1,000 males. **Literacy :** 19·07 per cent.

No. of Districts : 26 (82 Subdivisions & 196 tehsils).

Name*	Area in sq. kms.	Population
Ganganagar	20,629	1,394,011
Bikaner	27,231	573,149
Churu	16,829	874,439
Jhunjhunu	5,929	929,230
Alwar	8,382	1,391,162
Bharatpur	8,093	1,490,206
Sawai Madhopur ..	10,593	1,193,528
Jaipur	14,000	2,482,385
Sikar	7,732	1,042,648
Ajmer	8,479	1,147,729
Tonk	7,200	625,830
Jaisalmer	38,401	166,761
Jodhpur	22,860	1,152,712
Nagaur	17,718	1,262,157
Pali	12,391	970,002
Barmer	28,387	774,805
Jalore	10,640	667,950
Sirohi	5,135	423,815
Bhilwara	10,450	1,054,890
Udaipur	17,267	1,803,680
Chittorgarh	10,858	944,981
Dungarpur	3,770	530,258
Banswara	5,037	654,586
Bundi	5,550	449,021
Kota	12,437	1,143,870
Jhalawar	6,216	622,001

* Headquarters of the same name. *Source :* 1971 census.

Major Cities

Name	Area in sq. kms.	Population
Jaipur	64.75	615,258
Jodhpur	75.50	317,612
Ajmer	55.76	264,291
Kota	93.58	212,991
Bikaner	38.10	188,518
Udaipur	35.97	161,278
Alwar	44.75	100,378

No. of Villages : 33,305 inhabited and 2,490 uninhabited.

State Boundaries : In the north and north-east it is bound by Haryana, Delhi and Uttar Pradesh, in the east and south-east by Madhya Pradesh, in the south-west by Gujarat and in the west by Pakistan.

State Language : Hindi.

AGRICULTURE

Irrigation : The total irrigated area in Rajasthan is only 17 per cent of the total cropped area. An outlay of Rs. 820 million has been proposed during the Fourth Plan for irrigation purposes. This would increase the irrigated area by 563,000 hectares.

Land Ceiling† **:** 12·14 hectares for a family of five. If the family consists of more than five persons, every person in addition will get 2·42 hectares subject to a maximum of 24·28 hectares.

Livestock and Animal Husbandry : Livestock breeding in Rajasthan is said to be relatively more prosperous than in other States. The cattle breeds reared in Rajasthan are renowned and the light trotter type bullocks of Nagaur are well-known all over India. The milk yield of cows in Rajasthan is superior and the average is currently estimated to be about 363 litres per cow per year. Sheep constitute an important source of wealth. With a sheep population representing 19·1 per cent of the total sheep population of India Rajasthan accounts for 45 per cent of all-India wool production.

According to livestock census of 1966 there were 17,158,000 farm animals in addition to 8,806,000 sheep, 10,323,000 goats, 1,001,000 other animals and 865,000 poultry.

The following figures relate to 1970-71 : Total No. of Goshalas 44 ; Veterinary Hospitals 223 ; Veterinary Dispensaries 115 ; Artificial Insemination Centres 35 ; Key Village Centres 150 ; Mobile Dispensaries 33.

Dairying : The Jaipur Milk Supply Scheme was taken up in 1959-60 with a capacity of supplying 5,550 litres of milk per day. But with the financial assistance received from the Government of New Zealand its daily capacity was raised to 20,000 litres. A pilot milk supply scheme was started in April 1963 to provide the necessary experience in milk collection, transportation, marketing, etc.

Irrigation and Power Projects : Please see the main chapter on Irrigation and Power Projects.

INDUSTRIES

Large-Scale and Medium Industries (1970-71) : Cotton Textile and Yarn mills 19 ; Synthetic Fibre plants 3 ; Woollen mills 5 ; Cement factories 4 ; Glass and Potteries 2 ; Mica insulated bricks 1 ; Other Mineral-based industries 3 ; Fertiliser factory 1 ; Other Chemical-based industries 4 ; Distilleries and Breweries 7 ; Engineering industries 8 ; Electrical industries 5 ; Scientific instruments 2 ; Roller flour mills 6 ; Vanaspati 3 ; Sugar factories 3 ; Railway wagons manufacturing unit 1.

Production during 1971 : Cloth 54·9 million metres, yarn 29·0 million kgs., cement 1·40 million tonnes, salt 529,400 tonnes, ball bearing (nos.) 7·26 million, sugar 11,300 tonnes, nylon yarn 3·44 million tonnes, fertilizers 259,583 tonnes, spirits (all types) 1·19 million litres and wines 1·73 million litres.

Small-Scale Industries : The number of small-scale industries registered with the Director of Small Scale Industries till mid-1971 is 9,949. The most important cottage and small-scale industries in the State are tie and dye fabrics, wooden toys, Gota Kinar, handmade paper, gem cutting, cloth printing, agricultural tools and implements, embroidered shoes (Jutiyan), leather bags, water bottles and handloom weaving.

Industrial Agencies : Rajasthan Financial Corporation, Surya Nivas, C-18 Bhagwandas Road, Jaipur ; Rajasthan Industrial and Mineral Development Corporation Ltd., Jawaharlal Nehru Marg, Jaipur ; Rajasthan Small Industries Corporation, Sahadev Marg, Ashok Nagar, Jaipur and Director of Industries, Jaipur.

Industrial Estates : Industrial estates have been established at Jaipur, Makhupura (Ajmer), Bhilwara, Udaipur, Pali, Sumerpur, Jodhpur, Bikaner, Bharatpur, Ganganagar and Kota.

Labour : No. of registered Trade Unions during 1970-71 : 814. Total membership : 121,308.

No of registered factories (1970) : 2,149. Total No. of workers in the State (1971 census) : 8,287,589. Workers as per cent of total population : 32·22. Cultivators : 5,270,093. Agricultural Labourers : 753,851. Other workers : 2,263,645. Non-workers : 17,436,553.

Industrial Disputes (1970-71) : Strikes & Lockouts : 41 ; Workers involved 7,774 ; Mandays lost : 31,862.

Labour Welfare Centres (1970-71): No. of labour welfare centres : 24 ; No. of labourers benefited : 15,728 ; No. of children benefited 7,463 ; No. of adults educated : 553 ; No. of children educated : 26,002 ; No. of factories covered by State Insurance : 336 ; No. of workers insured : 72,000.

Employment Exchange Statistics : No. of Employment Exchanges : 26 ; Registration during 1971 : 173,901 ; Placements : 17,664.

EDUCATION

Schools (1970-71) : Higher Secondary Schools (including multi-purpose schools) 425 ; High Schools (including Junior Higher Secondary Schools) 609 ; Middle/Senior Basic Schools 2,042 ; Primary/Junior Basic Schools 19,330 (including nursery schools) ; Schools for professional education 11 ; Schools for Special education (excluding adult education centres) : 88.

Teachers: High/Higher-Secondary/Multi-purpose Schools: Trained 7,800 ; Untrained 5,200. Middle/Senior Basic Schools : Trained 13,830 ; Untrained 4,670. Primary/Junior Basic Schools : Trained 29,670 ; Untrained 9,830 ; Pre-Primary Schools : Trained 72 ; Untrained 74.

Total number of Educational institutions in the State during 1970-71 : 22,734.

Colleges : Colleges for general education : 83 ; colleges for professional education : 96 ; Colleges for Special education : 44.

Universities : University of Rajasthan, Jaipur ; Established : 1947 ; No. of students during 1970-71 : 48,178. University of Jodhpur, Jodhpur ; Established : 1962 ;

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† The data is subject to revision.

No. of students during 1969-70 : 7,786 ; University of Udaipur, Udaipur ; Established : 1962 ; No. of students during 1970-71 : 7,176 ; Institution deemed as University : Pilani.

Amount spent on education : Rs. 417·94 million (1970-71).

PUBLIC HEALTH

No. of Hospitals during 1971 : 420. T.B. Hospitals : 2 ; T.B. Clinics : 25. Sanatoria : 4 ; No. of T.B. beds : 1,485 ; Leprosy Hospitals : 2 ; Beds : 95 ; Mental Hospitals : 2 ; Beds : 331 ; Isolation Hospitals : 2 ; Beds : 221 ; Other Hospitals : 181 ; Beds : 7,893 ; (General 10,281 ; Maternity 1,450 ; Eye 628 ; V. D. 68). Total No. of beds : 15,252 ; Dispensaries : 231 ; Primary Health Centres : 232 ; Beds : 1,610 ; Patients treated : Outdoor : 14,457,722 ; Indoor : 353,770.

Medical Practitioners (1970-71) : Civil Assistant Surgeons : 1,870 ; Specialists : 68 ; Staff Nurses : 641 ; Midwives : 2,612 ; Compounders : 3,097 ; Sanitary Inspectors : 303 ; Vaccinators : 783 ; Dais : 233 ; Health visitors : 594 ; Malaria Surveillance Inspectors : 474 ; Vaccinators : 783 ; Matrons : 24.

Non-Allopathic Hospitals and Dispensaries : Ayurvedio and Unani Hospitals : 38 ; No. of beds : 345 ; Dispensaries : 1,708 ; Vaidyas and Hakims : 1,808 ; Compounders and Nurses : 1,630.

Medical Colleges : Pl. see main article on " Education ".

COMMUNICATIONS

Total No. of vehicles (1971) : 100,682 ; Private cars and jeeps : 25,258 ; Private buses : 307 ; Cycles and cycle rickshaws 27,105 ; Taxis, cars and contract carriages : 669 ; Stage carriages : 8,383 ; Public carriers : 18,444 ; Private carriers : 3,132 ; Tractors : 16,034 ; Others : 1,350 ; Total : 100,682.

Length of Motorable Roads : Cement concrete roads 42 kms. ; Painted roads 13,010 kms. ; Metalled roads 5,647 kms. ; Gravelled roads 6,462 kms. ; Fair weather and dressed up tracks 5,335 kms. ; National Highways : 1,256 kms. ; Total length of roads : 31,752 kms.

Railways: Rajasthan is served by 6,227·5 kms. of railway. Out of this nearly 5,820·2 kms. are in metre gauge, 293 kms. in broad gauge and 114·3 kms. in narrow gauge.

PRESS

Dailies :

English : Navjyoti Herald, Jaipur ; Jalte Deep, Jodhpur.

Hindi : Aag, Kota ; Adhikar, Jaipur ; Amar Rajasthan, Jaipur ; Chambal, Kota ; Kalam, Bikaner ; Mashal, Jaipur ; Nav Jyoti, Ajmer ; Nava Jyoti, Jaipur ; Rajasthan Patrika, Jaipur ; Rajasthan Times, Alwar ; Rashtra Doot, Jaipur ; Udai Bhanu, Bharatpur ; Vir Sainik, Bharatpur ; Jalte Deep, Jodhpur.

Sindhi : Bharat Bhoomi, Ajmer ; Hindvasi, Ajmer ; Hindu, Ajmer.

GENERAL

Important Rivers : The Luni, the Chambal, the Banas, the Mahi and the Sabarmati. Tributaries of the Luni : the Bandi and the Sarasvati ; Tributaries of the Chambal : the Kali Sindh and the Parbati. Tributary of the Banas : the Berach.

Lakes : (Name and location) Sambhar (Jaipur) ; Sili Sedh (Alwar) ; Jai Samand (Udaipur) ; Fatehsagar (Udaipur) ; Pichhola (Udaipur).

Minerals : Rajasthan occupies the tenth place in mineral production among all the other States. This State is the only source in the country for lead ore, garnet and emerald and stands first in the output of asbestos, calcite, felspar, glass and tungsten, soap-stone and flourite gypsum.

FOURTH FIVE YEAR PLAN

Following is the break-up of allocations under different main heads (Rs. in million).

Agricultural Programmes : 251·92 ; Irrigation and Power : 1,949·30, (*a*) Irrigation 967·60 ; (*b*) Power 981·70. Industry and Mining — (*i*) Mineral Development, 36·50 ; (*ii*) Large & Medium Industries, 20·80 ; (*iii*) Village and Small Industries : 9·20 ; Transport and Communications, 120·00 ; Co-operatives and Community Developments, 64·50 ; Social Services 677·20 ; Miscellaneous 8·50 ; Total 3,160·00 which includes 22·08 million to be spent under World Food Programme.

Annual Plan : Rajasthan's annual plan (1972-73) will be of the order of Rs. 637·40.

The sector-wise break-up of the outlay of the State's annual plan 1972-73 will be (Rs. in million) Agricultural Programmes 55·09, Community Development, Co-operation and Panchayats 20·29, Irrigation and Power 343·93, Industry and Mining 14·94, Transport and Communications 12·03, Social Services 187·69 and Miscellaneous 3·41. Total Rs. 637·04.

TAMIL NADU STATE

CAPITAL : Madras. **Area:** 128 sq. kms ; **Population:** 2,469,449.

Area of State : 130,061 sq. kms. **Population of State :** 41,199,168 ; **Males :** 20,828,021 ; **Females :** 20,371,147. **Decennial Population Growth Rate in the State (1961-71) :** 22·30 per cent. **Sex Ratio :** 978 Females per 1,000 Males. **Density :** 317 per sq. km.

Percentage of Literates to Total Population : 39·46 (51·78 per cent among males and 26·86 per cent among females).

Percentage of Workers to Total Population : 35·78 (56·02 per cent for males and 15·09 per cent for females).

Percentage to Total Workers : Cultivators : 31·26 ; Agricultural labourers : 30·46 ; Other Workers: 38·29.

Percentage of Urban Population to Total Population : 30·26.

Birth Rate for 1970 (Rate per 1,000 of estimated mid-year Population) : 27·2.

Death Rate for 1970 (Rate per 1,000 of estimated mid year Population) : 10·5.

Infant Mortality Rate for 1970 (Rate per 1,000 of Live Births) : 61·4.

Districts with Headquarters in brackets : Area in thousand sq. kms. and Population respectively : Madras City (Madras) 0·1 ; 2,469,449 ; Chingleput (Kanchipuram) 7·9 ; 2,907,599 ; North Arcot (Vellore) 12·2 ; 3,755,797 ; South Arcot (Cuddalore) 10·8 ; 3,617,723 ; Dharmapuri (Dharmapuri) 9·6 ; 1,677,775 ; Salem (Salem) 8·6 ; 2,992,616 ; Coimbatore (Coimbatore)15·6 ; 4,373,178 ;

The Nilgiris (Ootacamund) 2·5; 494,015; Madurai (Madurai) 12·6; 3,938,197; Tiruchirapalli (Tiruchirapalli) 14·2; 3,848,816; Thanjavur (Thanjavur) 9·7; 3,840,732; Ramanathapuram (Madurai) 12·6; 2,860,207; Tirunelveli (Tirunelveli) 11·4; 3,200,515; Kanyakumari (Nagercoil) 1·7; 1,222,549 (Total 14).

Major Cities : With area (in sq. kms.) and population. Madras City: 128·70 — 2,469,449; Madurai: 20·92 — 549,114; Coimbatore: 23·50 — 356,368; Salem: 19·99 — 308,716; Tiruchirapalli: 21·57 — 307,400; Tuticorin: 13·38 — 155,310; Nagercoil: 24·49 — 141,288; Thanjavur: 24·29 — 140,547; Vellore: 10·54 — 139,082; Dindigul: 11·77 — 128,429; Singanallur: 48·65 — 112,206; Tiruppur: 11·92 — 113,302; Kumbakonam: 11·54 — 113,130; Kanchipuram: 11·37 — 110,657; Tirunelveli: 15·33 — 108,498; Erode: 8·44 — 105,111; Cuddalore: 27·79 — 101,335.

No. of Villages (1971) : 16,658.

No. of Towns (1971): 443.

State Language : Tamil. Other languages spoken: Telugu, Malayalam, Kannada, Urdu and English.

Situation : The State lies between 8° 5′ and 13° 35′ of northern latitude and 76° 15′ and 80° 20′ of eastern longitude.

State Boundaries : Bounded on the east by Bay of Bengal, South by the Indian Ocean, West by Kerala State and north by Andhra and Mysore States.

Land Utilisation

Classification of area	Area (in '000 hectares) 1971-72
(*a*) By professional survey	12,996
(*b*) By village papers	13,001
Forests	2,014
Barren and uncultivable land	832
Land put to non-agricultural uses	1,476
Cultivable waste	507
Permanent pastures and other grazing lands	230
Land under miscellaneous tree crops and groves (not included in the net area sown)	227
Current fallows	969
Other fallow lands	573
Net area sown	6,169
Area sown more than once	1,215
Gross cropped area	7,385
Area under food crops	6,621
Area under non-food crops	1,764

Civil Supplies : Imports (1970-71).

Sl. No.	Commodity	Quantity (in tonnes)	Value (Rs. in million)
1.	Wheat	2,257,092	326·9
2.	Rice	—	—
3.	Maize (corn) Meal	16,295	29·0
4.	Cereals	500	4·0
5.	Milk and Cream evaporated, dry or condensed	3,410	11·4

Land Ceiling : Reduced from 24·28 standard hectares to 16·18 standard hectares per family.

Dairying : The major milk supply schemes in the State are the Madras Dairy and Milk Project for the supply of milk to Madras City and Madurai Milk Project for Madurai City. There are 23 milk supply unions and 2,586 milk co-operative societies in the State which are engaged in the collection and distribution of milk.

The Tamil Nadu Dairy Development Corporation has, launched a scheme of dairy expansion at a cost of about Rs. 90 million.

Under the scheme, a new dairy at Ambattur industrial estate to handle about 200,000 litres per day is being set up. A milk powder plant with a capacity to produce ten metric tonnes of skim milk powder is being set up at Madurai.

The dairy at Erode is being expanded to handle about 60,000 litres and yet another new dairy of 60,000 litres capacity is being set up near Jalarpet. To feed the above dairies, it is also proposed to set up several chilling centres.

During 1970-71 the quantity of milk distributed by the milk projects and co-operative societies was 96,470,000 litres.

Fisheries (See chapter on "Fisheries")

Forests : (As on 1-4-1972)

Area of Reserved Forests	17,228 sq. kms.
Percentage of total land area of State	15·5
Area of Reserved Lands	3,811·8 sq. kms.
Output of Timber	50,875 cub. met.
Quantity of Fuel extracted	597,359 cub. met.
Quantity of Sandal Wood	1,500 tonnes
Quantity of Rubber field latex collected during the year 1971-72. .	449,264 kgs.

IRRIGATION

Net area irrigated by (In '000 hectares): Government Canals 861; Private Canals 1; Tanks 902; Wells** (*i*) Tube wells 6; (*ii*) Sole irrigation 675; Other sources (Springs, Canals etc.) 41 (Total: 2,486).

Percentage of net area irrigated to net area sown: 39·6.

Major Irrigation Projects : See chapter on "Irrigation and Power."

Electrification in the State : By the end of March 1972, the following have been electrified: All the towns in the State, 12,837 inhabited census villages (90·6%) and 39,100 hamlets (83·7%).

Pumpsets : Number of agricultural pumpsets connected as on 31-3-72: 594,612.

Major Power Projects : See chapter on "Irrigation and Power".

MADRAS CITY

Area : 128·00 sq. kms; **Population :** 2,469,449; Males: 1,297,195; Females: 1,172,254. **Sex ratio** (Females per 1,000 Males): 904; **Literacy :** 62·01 per cent; Males 70·57 per cent; Females 52·54 per cent. **Decennial Growth Rate :** 42·81. **Density per Sq. Km. :** 19,293.

Local Administration: Following are the units of Local Administration as on 1-4-1972.

Corporations (Madras and Madurai) 2; Municipalities 99; Panchayat Townships 12; Panchayat Unions 374; Town Panchayats 600; Village Panchayats 12,642.

AGRICULTURE

Refer to the chapter on 'Agriculture'.

** There are in addition, 101 wells supplementing other source of irrigation.

MAJOR INDUSTRIES

Sl. No.	Type of Industry	No. of units	Number Employed	Output (Rs. in million)
1.	Spinning, Weaving and Finishing of Textiles	506	112,180	2,033·5
2.	Electric Light and Power Gas	26	71,013	724·1
3.	Manufacture and Repair of Motor Vehicles	250	32,364	860·9
4.	Manufacture of Machinery except Electrical Machinery ..	455	35,512	735·8
5.	Manufacture of Miscellaneous Food Preparations	767	26,345	720·0
6.	Manufacture of Electrical Machinery, Apparatus, Appliances and Supplies ..	137	15,389	362·7
7.	Manufacture of Railroad Equipments ..	9	26,232	435·4
8.	Printing, Publishing and Allied Industries (including Book Binding)	451	21,213	231·9
9.	Basic Industrial Chemicals including Fertilisers	68	13,140	473·6
10.	Ferrous Metal Industries—Iron and Steel Basic Industries ..	90	21,499	352·0
11.	Sugar Factories ..	28	10,348	399·5
12.	Manufacture of Miscellaneous Chemical products	265	17,856	291·2
13.	Manufacture of Rubber and Rubber Products	45	5,822	385·3
14.	Manufacture of Cement (Hydraulic) ..	7	5,375	248·3
15.	Manufacture of Metal products except machinery and Transport Equipment	269	11,939	177·8
16.	Tanneries and Leather Finishing Plants ..	250	10,899	562·3
17.	Manufacture of Motor Cycles and Bicycles	11	4,741	141·4
18.	Manufacture of Grain Mill Products ..	878	13,142	430·4
19.	Manufacture of non-metallic mineral products (not elsewhere classified)	36	2,664	105·7
20.	Others	1,142	60,609	1,213·5

Industrial Estates : (As on September 1, 1971).

Places where conventional Industrial Estates are located : Guindy, Madurai-7, Virudhunagar, Pettai, Erode, Katpadi, Thanjavur, Trichy, Marthandam, Ambattur, Theni, Dindigul, Karaikudi, Kovilpatti, Krishnagiri, Pudukottai, Arkonam, Sivaganga, Nagerkoil, Kumbakonam, Karur, Nagapattinam and Kancheepuram.

Places where functional Industrial Estates are situated : Vridhachalam (for ceramics), Madhavaram (for leather goods), Kakkalur (electrical industry), Mettur (for chemical industries).

Industrial Development Agencies : (See chapter on "State Corporations.")

Handloom Industry: There are 550,000 looms in Tamil Nadu providing employment to 2 million people. The total production of handloom cloth in 1970-71 was 602,000,000 metres.

The production of cotton varieties account for about 90 per cent of the total output. These are mainly exported to Singapore, Malaysia, East African countries, United Kingdom, Kenya etc. Art Silk and mixture varieties are exported to Germany. During 1970-71, 15,194,000 metres of handloom cloth were exported and their value was Rs. 43·327 million.

LABOUR

No. of Trade Unions (as on 1-1-1971) : 1,856.

No. of Strikes including Lockouts in 1971 : 308.

No. of Man-days Lost by Strikes : 2,286,507.

No. of Persons Employed as on 30th June, 1971.

Sl. No.	Category	No. of persons (in '000)
1.	Agriculture, Livestock, Forestry and Fishing	88·1
2.	Mining and quarrying	29·2
3.	Manufacturing	422·7
4.	Construction	51·9
5.	Electricity, Gas, Water and Sanitary Services	72·3
6.	Trade and Commerce	81·3
7.	Transport and communications ..	182·6
8.	Services	606·5
	Total Employed	1,534·6

No. of Persons on Live Register of Employment Exchanges on 31-3-1970 : 3,471,000.

EDUCATION (1971-72*)

NUMBER OF SCHOOLS

Primary	Number	Pupils		Teachers	
		Boys	Girls	Males	Females
Pre Primary Schools	42	2,650	2,904	100,807	64,891
Elementary Schools (Lower) ..	22,837	2,701,375	1,987,915		
Elementary Schools (Higher) ..	4,737				
Junior Basic Schools	3,322	596,283	452,784		
Senior Basic Schools	1,076				

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* Figures are Provisional.

Secondary	Number	Pupils		Teachers	
		Boys	Girls	Males	Females
Indian Secondary High Schools Indian Secondary Middle Schools	2,613 49	990,878	509,483	42,365	17,526
Anglo-Indian Schools	40	13,274	13,650		
Central and Matriculation Schools	43**	14,244	15,693		
Post Basic Schools	3	547	198		

** Including Schools affiliated to the Council for Indian Schools Certificate.

	No. of Colleges	No. of Scholars
Medical Colleges	9	8,504
Agricultural Colleges	2	1,008
Law College	1	2,347
Veterinary College	1	848
Engineering Colleges	12	10,751
Polytechnics	35	7,687
Technical, Arts and Industrial Schools	103	16,587

Number of Educational Institutions

Universities	4
High Higher Secondary/Post Basic Schools	2,699
Middle Senior Basic/Higher Elementary Schools	5,862
Primary/Junior Basic Schools	26,159
Pre-Primary Schools	42
Colleges for General Education	169
Colleges for Special Education	23
Colleges for Professional Education	223
Schools for Special Education	111
Schools for Vocational Training and Technical Education	118

PUBLIC HEALTH

No. of Hospitals, Dispensaries and Primary Health Centres	1,369
No. of Beds	36,954
No. of Nurses	4,601
No. of Registered Medical Practitioners	19,096

COMMUNICATIONS

Motor Vehicles on road (as on 31-3-1972): 158,128.

Length of Motorable Roads (as on 31-3-1971) in kilometres:

National Highways 1,804; State Highways 1,780; Major District Roads 13,776; Other District Roads and Village Roads 9,537; Roads maintained by Panchayat Unions and Panchayats 40,032; Other Roads maintained by Municipalities and Public Works Department 7,235; Total 74,164.

Statistics of Tamil Nadu State Transport for 1970-71: No. of routes operated 718; Route kilometres (in '000) 66·44; Scheduled No. of trips or singles 20,880; Average No. of vehicles on road 1,686; Fleet held 2,086; Scheduled No. of services 1,806; Average No. of passengers travelled per day (in '000) 1,481.

Post & Telegraph (as on 31-3-1970): Rural Post Offices 8,157; Urban Post Offices 1,195; Telegraph Offices (including Licensed Offices) 1,062; Telephone connections 60,000; Telephone exchanges (including PBX) 707; Public Call Offices 1,127.

PRESS

LEADING DAILIES WITH PLACE OF PUBLICATION:

The Hindu (E)	Madras
The Indian Express (E)	Madurai
	Madras
The Mail (E)	Madras
Daily Thanthi (T)	Madurai
	Tiruchirapalli
	Madras
	Tirunelveli
	Coimbatore
Dinamalar (T)	Tirunelveli
Dinamani (T)	Madurai
	Madras
Malai Murasu (T)	Tirunelveli
	Madurai
	Coimbatore
	Vellore
	Madras
	Salem
Murasoli (T)	Madras
Nava India (T)	Coimbatore
Navamani (T)	Madras
Navasakthi (T)	Madras
Swadesamitran (T)	Madras
Malai Mani (T)	Madras
Nathigam (T)	Madras
Logavani (M)	Madras
Andhra Patrika (Tel)	Madras
Musalman (U)	Madras

(E) English, (T) Tamil, (M) Malayalam, (Tel) Telugu, (U) Urdu.

GENERAL

Climate: It is essentially tropical. The maximum temperature hardly exceeds 43°C (110°F) and the minimum seldom goes below 18°C (65°F).

Rainfall: The rainfall in the region is determined by the south-west monsoon (June to September) and the north-east monsoon (October to December); The average rainfall of the Madras Division is 1,008·1 mm. with an average annual number of 53·5 rainy days, i.e. days on which 2·5 mm. or more of rain is recorded.

Temperature: From January, the temperature rises through the months of February and March to a maximum in April, May and June. The temperature falls gradually until September. With the commencement of the north-east monsoon in October, the temperature falls at a fairly rapid rate till December. The lowest temperature is recorded during December-January.

Soils : The three main types of soils found are red, black and alluvial; red is however the predominant type. Along the coast line patches of arenaceous soils are also found.

Minerals : Salt, limestone, magnesite, gypsum, crude mica, bauxite, ilmenite, fireclay, lignite, iron ore etc.

Hills : The important hill ranges are the Western Ghats (Palani Hills in Madurai district and Annamalai in Coimbatore district form part of this range), the Eastern Ghats, Shevaroy Hills, Javadi Hills, the Kalrayans and the Pachaimalai. The Palghat gap averaging 24 kms. is the only marked break in the Western Ghats.

Important Rivers : The Cauvery, the Ponnaiyar, Palar, the Vaigai and the Tambraparani.

Major Lakes : (Capacity more than 14,000 million litres) Chambarambakkam, Madurantakam and Red Hills lakes (Chingleput District); Veeranam Tank (South Arcot District); Kaveripuk (North Arcot District); Ramnad and Rasimangalam Tanks (Ramanathapuram District).

TRIPURA STATE

THE Union Territory of Tripura became a full-fledged State on January 21, 1972.

Capital : Agartala. **Area :** 15·78 sq. kms. **Population :** 59,625.

Area of State : 10,477 sq. kms. **Population of State :** 1,556,342. **Density :** 149 per sq. km. **Sex Ratio :** 943 females per 1,000 males. **Literacy :** 30·98 per cent.

Districts	Area in sq. kms.	Population
North Tripura	3,541	405,009
West Tripura	3,359	751,605
South Tripura	3,577	399,728

No. of Tehsils : 44. **No. of Towns :** 6. **No. of Villages :** 4,727.

State Boundaries : The State is bounded in the north-west, west, south and south-east by Bangla Desh and in the north-east by Assam and Mizoram.

State Language : Bengali is predominantly spoken.

AGRICULTURE

Over 60 per cent of the land area is forest and of the total reported area of 1·07 million hectares, only 0·24 million hectares or about 22 per cent is under crops. The principal products are paddy, jute and mesta, potatoes, oilseeds, sugar-cane and cotton. The State is, therefore, deficit in foodgrains and has to import about 30,000 tonnes to meet its requirements. (For production figures and other details please see Chapter on "Agriculture".)

Livestock and Animal Husbandry : Total No. of cattle 524,880; Buffaloes 20,243; Sheep 1,854; Goats 147,058; Horses and Ponies 328; Pigs 44,024; Poultry 517,664.

At present there are 2 Veterinary hospitals, 19 Veterinary dispensaries, 7 Veterinary units and 24 Stock-man centres and one Disease Investigation Laboratory. During the year 1971-72, 213,483 livestock were treated, 8,231 animals were castrated and 19,908 innoculations were performed.

Dairying : Dairy development activities began in Tripura in the Second Five Year Plan. An urban milk supply scheme with a capacity of 1,850 litres of milk per day for distribution to the people in Agartala town was duly implemented. To meet the growing demand for milk the scheme was expanded and arrangement was made to handle 3,700 litres of whole milk per day.

Further the Government is going to start three rural dairies at Dharmanagar, Ambasa and Udaipur.

Poultry : The poultry development scheme was first launched in this State during the Second Plan period. Besides the State poultry farm at Gandhigram, 2 poultry Extension Centres have been established.

Piggery Development : There are four piggery units in different parts of the State.

Power Development : The source of power in Tripura is from diesel stations located at Agartala, Ambasa, Khowai, Dharmanagar, Kailashahr, Udaipur and Bogafa. The aggregate installed capacity of the generating stations is 5,051 kW. but since the generators are old the aggregate capability is only 1,600 kW. Part of the shortfall is made up by purchasing power from Assam. Work is in progress on two grid substations at Dharmanagar and Agartala and on the Gomti Hydro-Electric Project after which Tripura will be able to draw more power from Assam.

MAJOR INDUSTRIES

Industry (Units in brackets)	Total number of workers	Value of production (in Rs.)
Handloom (607)	1,943	3,105,688
Tailoring (691)	1,046	257,050
Carpentry (251)	881	1,810,979
Blacksmithy (301)	579	755,095
Pottery (633)	1,591	1,194,078
Rice, Oil & Flour mills (128)..	1,931	1,082,355
Bidi making (23)	703	1,008,290
Trunk making (16)	59	324,275
Oil Ghani (70)	116	108,773
Gur Khandsari (86)	230	128,518
Bakery (31)	349	1,534,470
Motor repairing etc. (40) ..	172	157,063
Miscellaneous (1)	92	230,075
Umbrella Handle mfg. (3) ..	34	131,500
Soap manufacturing (5) ..	49	639,217
Brick manufacturing (19) ..	2,050	3,775,120
Pharmaceutical works (3) ..	16	117,300
Aluminium Utensils mfg. (1)..	18	400,000
R.C.C. Spun Pipe mfg. (1) ..	40	427,000
Hosiery (1)	7	110,000
Fruit Canning (1)	25	216,000
Cooking Spices mfg. (1) ..	8	160,000

Tea Industry : Tea plantations in Tripura cover an area of about 5,526 hectares and their annual production of processed tea is approximately 3·78 million kgs. The area under tea constitutes about 2·3 per cent of the total cultivated area in the State.

Industrial Estates : There are two industrial estates in the State. The industrial estate at Udaipur with one unit in blacksmithy and one unit in carpentry in public sector produced articles such as furniture and agricultural and tea garden implements worth about Rs. 28,800 during 1970-71. The industrial estate at Arundhatinagar produced articles worth Rs. 1,091,000 in the estate and articles worth Rs 1,090,000 were sold during the year 1970-71.

Industrial Development Agency : The Tripura Small Industries Corporation Limited, Tripura.

Labour : No. of Trade Unions on register : 69 ; No. of Unions submitting returns : 29 ; Total membership : 13,000; No. of factories : 67 ; Total No. of workers in the State (1971 census) : 434,796 ; Workers as per cent of total population : 27·93 ; Cultivators : 234,615 ; Agricultural labourers : 85,650 ; Other workers : 114,531 ; Non-workers : 1,122,026.

Industrial Disputes (1971) : No. of industrial disputes : 15 ; No. of workers involved : 2,584 ; No. of man-days lost : 53,791.

Employment Exchange (1972) : No. of registrations : 10,012 ; No. of vacancies notified : 779 ; No. of candidates placed : 396 ; No. on the waiting list in the Live Register : 36,298.

Total No. of employees was 43,704 (6,478 private sector and 37,226 public sector) as in September, 1972.

EDUCATION (1970-71)

Sub-Division	Nursery schools including Balwadi centres	Primary Basic and Non-Basic Schools	Middle Basic and Non-Basic Schools	High and Higher Secondary Schools	Colleges for General Education	Colleges for professional Technical Education	Social Education Centres
Sadar	102	342	59	34	4	7	112
Khowai	37	152	19	8	—	—	48
Kamalpur	40	100	14	5	—	—	10
Kailashahr	31	135	23	8	1	—	43
Dharmanagar	34	176	25	8	—	1	59
Sonamura	20	74	18	5	—	—	30
Udaipur	31	89	21	6	—	1	27
Belonia	27	149	22	9	1	—	25
Sabroom	14	82	10	3	—	—	18
Amarpur	21	85	9	3	—	—	27
Total	357	1,384	220	89	6	9	423

Enrolment in Schools : Nursery Schools including Balwadi Centres : 16,825 ; Primary Basic and Non-Basic Schools : 127,013 ; Middle Basic and Non-Basic Schools : 53,736 ; Higher Secondary Schools : 42,868 ; Schools for Vocational and Special Education — Agriculture : 116 ; Nurses Training Centres : 57 ; Industrial Training Centres : 104 ; Others (Oriental Studies and Hindi Learning Centres) : 2,324 ; Social Adult Education : 9,373 ; Physical Education : 743.

In Colleges : Total number of students in Colleges for General Education : 6,769 ; Professional and Technical Colleges : — ; Teacher's Training 507 ; Polytechnic 31 ; Engineering Colleges : 111 ; Music Colleges : 135.

PUBLIC HEALTH

Before independence there were very few facilities to provide medical care. There was one 40-bed hospital at Agartala and 29 dispensaries. During the last two decades considerable progress has been made in bringing medical care to the people.

Hospitals and Dispensaries (1970-71) : Hospitals : 11 ; Public Health Centres : 23 ; Dispensaries : 124 ; Doctors : 182 ; Compounders : 178 ; Nurses : 274 ; Total No. of Beds : 790 ; Ayurvedic Dispensaries 1 ; Homoeopathic Dispensaries 1 ; Antinatal Clinic 1 ; Eye Clinic 1 ; Chest Clinic 1 ; Leprosy Clinic 1 ; Dental Clinic 1 ; E.N.T. Clinic 1 ; V.D. and Skin Disease Clinics 2 ; Psychiatric Clinic 1.

COMMUNICATIONS

Total number of vehicles as on March 31, 1972 : 4,522.

Motor Cycles : 470 ; Autorickshaws : 3 ; Jeeps : 699 ; Private Motor Cars : 1,246 ; Trucks : 1,750 ; Buses : 258 ; Vans : 75 ; Tractors : 41.

Roads : Length of motorable roads : 3,599 kms. ; Length of surface roads : 1,249 kms. ; Unsurfaced roads : 2,278 kms. National Highways : 1 ; Number of State Highways : 2.

Names of State Highways : (1) Assam-Agartala Road. (2) Agartala-Sabroom Road.

Roads maintained by Agartala Municipality : Surfaced : 28 kms. ; Unsurfaced : 44 kms.

In the Fourth Five Year Plan, a sum of Rs. 52·1 million for construction and development of roads has been approved. About 200 kms. of existing roads are proposed to be surfaced and about 300 kms. of new roads are proposed to be constructed.

In the Fifth Plan Rs. 100 million are likely to be allotted for development of roads.

Railways : A railhead has been opened at Dharmanagar. A survey to explore the possibility of linking Agartala with Dharmanagar by a railway track has been completed.

PRESS

Leading Dailies : *Ganaraj* (Bengali), Agartala ; *Jagaran* (Bengali), Agartala ; *Dainik Sambad* (Bengali), Agartala ; *Bhabi Bharat* (Bengali), Agartala ; *Daily Janapad* (Bengali), Agartala ; *Dainik Vivek* (Bengali), Agartala ; *Daily Rudrabina* (Bengali), Agartala ; *Daily Tripura Prakash* (Bengali), Agartala ; *Dainik Nagarik* (Bengali), Agartala.

FOURTH FIVE YEAR PLAN

The Planning Commission had fixed the State's Plan outlay at Rs. 346·60 million. The sector-wise expenditure and financial allocation is given below :

(Rs. in million)

Agricultural Programme	74·94
Community Development and Panchayat	6·90
Irrigation and Power	100·15
Industries	13·28
Transport	58·60
Social Services	80·44
Miscellaneous	7·58
TOTAL	341·90

Rivers : The Gumti, The Khowai, The Manu, The Haorah, The Muhuri.

UTTAR PRADESH STATE

CAPITAL: Lucknow. **Area:** 103·60 sq. kms. **Population:** 826,246.

Area of State: 294,364 sq. kms. **Population of State:** 88,364,779. **Density:** 300 per sq. km. **Sex Ratio:** 883 females per 1,000 males. **Literacy:** 21·64 per cent.

Districts	Area in '000 Sq. Km.	Population
Uttar Kashi	8·0	149,785
Chamoli	9·1	297,351
Tehri-Garhwal	4·4	398,676
Garhwal	5·4	539,669
Pithoragarh	7·2	308,220
Almora	7·0	741,821
Naini Tal	6·8	790,120
Bijnor	4·9	1,507,907
Moradabad	5·9	2,431,587
Budaun	5·2	1,644,992
Rampur	2·4	901,650
Bareilly	4·1	1,779,630
Pilibhit	3·5	751,948
Shahjahanpur	4·6	1,283,323
Dehra Dun	3·1	582,592
Saharanpur	5·5	2,059,472
Muzaffarnagar	4·2	1,801,428
Meerut	5·9	3,363,649
Bulandshahr	4·9	2,974,816
Aligarh	5·0	2,113,747
Mathura	3·8	1,292,982
Agra	4·8	2,319,238
Etah	4·4	1,568,251
Mainpuri	4·3	1,442,523
Farrukhabad	4·3	1,558,720
Etawah	4·3	1,445,197
Kanpur	6·1	2,992,535
Fatehpur	4·2	1,276,750
Allahabad	7·3	2,938,044
Jhansi	10·1	1,307,276
Jalaun	4·5	812,909
Hamirpur	7·2	988,240
Banda	7·6	1,182,949
Kheri	7·7	1,479,432
Sitapur	5·7	1,885,752
Hardoi	6·0	1,850,493
Unnao	4·6	1,483,567
Lucknow	2·5	1,630,878
Rae Bareli	4·6	1,510,742
Bahraich	6·9	1,728,375
Gonda	7·3	2,302,970
Bara Banki	4·4	1,636,426
Faizabad	4·4	1,926,631
Sultanpur	4·4	1,642,100
Pratapgarh	3·7	1,424,802
Basti	7·3	2,983,863
Gorakhpur	6·3	3,037,876
Deoria	5·4	2,815,097
Azamgarh	5·7	2,866,216
Jaunpur	4·0	2,002,992
Ballia	3·2	1,585,899
Ghazipur	3·4	1,550,364
Varanasi	5·1	2,829,750
Mirzapur	11·3	1,542,557

Names of the district headquarters are the same as the names of the districts except for the districts (headquarters given in the brackets): Farrukhabad (Fatehgarh); Garhwal (Pauri); Jalaun (Orai); Tehri Garhwal (Narendranagar).

No. of Tehsils: 231; No. of Towns: 293; No. of Villages: 111,742.

Major Cities: With area in sq. kms. and population over 100,000 respectively.

Kanpur: 261·59; 1,151,975. Lucknow: 103·60; 750,512. Varanasi: 73·81; 560,296. Agra: 61·79; 594,858. Allahabad: 62·67; 491,702. Meerut: 13·80; 271,325. Bareilly: 21·34; 296,093. Moradabad: 9·84; 258,251. Aligarh: 31·85; 254,008. Gorakhpur: 38·85; 230,701. Saharanpur: 25·25; 225,698. Dehra Dun: 31·08; 166,436. Jhansi: 35·22; 173,255. Rampur: 20·20; 161,802. Shahjahanpur: 9·45; 135,492. Mathura: 9·37; 131,813. Firozabad: 6·21; 133,945. Ghaziabad: 11·13; 119,199. Muzaffarnagar: 12·04; 114,859. Farrukhabad-cum-Fatehgarh: 10·64; 103,282. Mirzapur-cum-Vindhyachal: 38·85; 105,920. Faizabad-cum-Ayodhya: 31·49; 102,794.

State Boundaries: It is bound by Tibet and Nepal in the north, Himachal Pradesh in the north-west, Punjab in the west, Rajasthan in the south-west, Madhya Pradesh in the south and Bihar in the east.

State Language: Hindi.

AGRICULTURE

(for details please see chapter on 'Agriculture').

Land Ceiling: 16·18 hectares for a family of five. If the family consists of more than five persons, every person in addition will get 3·23 hectares subject to a maximum of 25·9 hectares.

Livestock: Cattle: 25,992,000; Buffalo 11,938,000; Sheep: 2,894,000; Goats 8,916,000; Pigs: 1,163,000; Total Livestock 50,903,000; Poultry 3,771,000.

Veterinary Hospitals (1970-71): 1,080; Veterinary Assistant Surgeons: 1,095; Cases treated: 6,864,207.

Irrigation & Power Projects: Please see the chapter on 'Irrigation and Power Projects'.

INDUSTRIES

Sugar, cotton textiles, edible oils, hydrogenated oil, industrial machinery, machine tools, electrical machinery and electrical accessories, radio sets and transistors, television sets, cycle and cycle parts, foundries, leather tanning and leather goods, woollen textiles, jute textiles, glass and glass products etc.

Small Enterprises: During 1971-72, 3,879 small-scale industrial units were registered with the State Directorate of Industries raising their total number from 967 in 1960-61 to 32,362 in 1971-72. In the sphere of small-scale industries the State now stands third in the country, next only to Punjab and Maharashtra. U.P. State Industrial Corporation has developed 16 industrial areas to promote small industries particularly in backward areas.

Industrial Development Agencies: Please refer to the chapter on 'State Corporations'.

Industrial Estates: There are 68 estates at present with 2,075 built-in sheds and developed plots. Out of these 1,476 have been allotted and 580 are engaged in production. During 1971-72, the 580 working units in these estates produced goods valued at Rs. 147·07 million and employed over 7,960 persons. Some functional estates catering exclusively to electronic goods, leather goods and electricity goods are also in the offing.

Handloom Industry : There are at present 288,431 registered looms in the State producing 450 million metres of cloth annually and giving employment to 1·2 million people directly and indirectly. The khadi and village industries produced goods valued at Rs. 156·90 million and employed 104,000 persons during 1971-72.

Labour : Total No. of registered factories (1970): 4,004; No. of working factories: 3,882; Estimated average daily No. of workers employed: 362,000.

Total No. of workers in the State (1971 Census): 28,416,871; Workers as per cent of total population: 32·16; Cultivators: 15,910,591; Agricultural labourers: 5,497,317; Other workers: 7,008,963; Non-workers: 59,947,908.

No. of Trade Unions as on December 31, 1971 : 1,590.

Industrial Disputes : 193 strikes during 1971 involving, 105,546 workers resulting in a loss of 1,790,074 man-days.

The industrial lay-offs claimed another loss of 1,282,226 man-days and involved 58,831 workers during 1971. The number of lay-offs was 346 (1970) and 384 (1971).

EDUCATION

Schools 1972-73 : Primary : No. of Primary Schools: 62,408; Total No. of students: 11,616,000; No. of boys: 7,205,000; No. of girls: 4,411,000; No. of Teachers: 236,643.

Secondary : No. of Secondary Schools: 3,793; Total No. of Students: 1,193,000; No. of boys: 953,000; No. of girls: 240,000; Total No. of teachers: 50,730.

Colleges : No. of Degree Colleges: 292; No. of Students: 118,000; No. of Teachers: `7,051; Engineering and Degree Colleges: 6; Polytechnics: 28; Diploma Institutions: 6.

Total General Education Budget: Rs. 1,115·10 million.

Universities : With the year of establishment in brackets and the number of students during 1970-71. 1. Agra University, Agra. (1927) 74,156; 2. Aligarh Muslim University, Aligarh. (1921); 8,000 approximately; 3. Allahabad (University, Allahabad-211002. (1887) 8,992; 4. Banaras Hindu University, Varanasi-221005. (1916) 12,999; 5. Gorakhpur University, Gorakhpur. (1957) 42,524; 6. Kanpur University, Kanpur. (1966); 50,000 approximately; 7. Lucknow University, Lucknow. (1921) 26,186; 8. Meerut University, Meerut. (1966) 50,000; 9. Roorkee University, Roorkee. (1949) 1,369; 10. U.P. Agricultural University, Pant Nagar, Nainital. (1960) 1,959; 11. Varanaseya Sanskrit University, Varanasi (1958); N.A.

PUBLIC HEALTH

Total No. of Hospitals in 1972-73: Allopathic: 2,364; Ayurvedic/Unani: 1,185/156; Homoeopathic 104; Beds: 41,486; Doctors registered upto June 30, 1972: 13,313: Doctors in Government service (Allopathic): 3,520; Homoeopaths 25, Vaids and Hakims (registered): 31,812; Vaids and Hakims in Government service: 825, Nurses (registered): 5,187; Nurses in Government services: 2,642; Mental Hsopitals: 3; Primary Health centres: 875; T.B. Hospitals 14; T.B. Clinics 59; Total No. of beds in T.B. Sanatoria and Clinics: 2,602; Leprosy Control Units: 22; Government survey, education and treatment units: 90; Total No. of beds: 1,803.

Medical Colleges: 9; Total No. of seats in Medical Colleges: 808.

COMMUNICATIONS

(As on March 31, 1972): Vehicles under U.P. Government Roadways: Buses 4,253; Trucks 410; Taxis 195. No. of passengers carried by Roadways buses: 251·33 million; City bus services: 59·1 million; No. of persons employed: 28,728. Vehicles other than Government Roadways: Buses: 6,179; Lorries and Trucks including private carriers: 22,085; Taxis including contract carriages: 6,071.

Length of Motorable Roads : Total mileage of metalled roads under P.W.D.: 37,917·6 kms, Total route length 108,916 kms, No. of routes operated: 1,026; Total Kilometres covered during 1970-71: 210,588,287.

Railways : In Uttar Pradesh about 61 per cent of the route mileage is broad-gauge and the rest are metre and narrow gauges. The railway mileage within the State is 15·3 per cent. of the total route mileage of 35,395.

Press : Leading Dailies with their circulation figures.

English : National Herald — Lucknow & Delhi, 43,377†; Northern India Patrika — Allahabad, 37,313; Pioneer — Lucknow, 20,185.

Hindi : Aj — Varanasi, 41,930; Amar Ujala — Agra 36,911; Bareilly, 13,560; Bharat — Allahabad, 12,894; Daily Jagran 49,685; Jagran — Jhansi, 15,158; Gandiva — Varanasi, 12,597; Navjivan — Lucknow, 14,685; Swatantra Bharat — Lucknow, 25,436.

Urdu : Quami Awaz — Lucknow, 9,116.

GENERAL

Housing : No. of houses constructed till Dec., 1971: (*a*) Under subsidised Industrial Housing Scheme; 28,791; (*b*) Low Income Group Housing Scheme: 12,071; (*c*) Middle Income Group Housing Scheme: 1,756; (*d*) Slum Clearance: 7,401.

Important Rivers : The Ganga, The Yamuna and the Ghaghara.

Other rivers : The Gomati, the Gaihai, the Joknai, the Sai, the Ramganga, the Khoh, the Dojora, the Kosi, the Bhakra and the Deotta or Garra.

Minerals : It is the largest silica sand producing State which is 80 per cent of the all-India production. Limestone, silica, magnesite, pyrophillite, fine clay, asbestos, marble, gypsum, sulphur and graphite are some other minerals found in the State. The State has the second largest reserves of limestone in the country — about 7,800 million tonnes out of about 20,900 million tonnes. Limestone is found in Khajrahat in Mirzapur and Dehra Dun and Garhwal districts. Marble suitable for cement manufacture has been found in Lucknow, Barabanki, Unnao, Rae Bareli, Mirzapur and Dehra Dun districts. Copper, Cobalt and iron ore occur at Bundelkhand.

ANNUAL PLAN OUTLAY

The Plan outlay for 1973-74 has been set at Rs. 2,619·6 million. Out of this Rs. 127·5 million will be spent on increasing agricultural production, Rs. 1,215·4 million on irrigation and power, Rs. 121·0 million on Industry and mining, Rs. 172·20 million on roads and road transport and Rs. 52·4 million on special employment programme, besides expenditure under other heads.

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† Combined circulation.   * Figure covers only Bareilly.

WEST BENGAL STATE

CAPITAL : Calcutta. **Area:** 30 sq. kms. **Population:** 3,141,180.

Area of the State : 87,676 sq. kms. **Population of the State :** 44,440,095. **Decennial Population Growth Rate** (1961–71) : 27·24 per cent ; **Density :** 507 per sq. km. ; **Sex Ratio** — 892 females per 1,000 males ; **Proportion of Urban Population to Total :** 24·59 per cent ; **Literacy Rate :** 33·05 per cent (Males : 42·84 per cent ; females 22·08 per cent) ; Work participation rate : 28·37 per cent (Males : 48·89 per cent ; Females : 5·36 per cent).

Districts	Headquarters	Area in sq. kms.	Population
Darjeeling ..	Darjeeling	3,005	765,677
Jalpaiguri ..	Jalpaiguri	6,233	1,752,177
Cooch-Behar ..	Cooch-Behar	3,339	1,412,148
West Dinajpur..	Balurghat	5,365	1,846,215
Malda	English Bazar	3,713	1,614,570
Murshidabad ..	Berhampur	5,324	2,942,125
Nadia	Krishnagar	3,922	2,229,022
24 Parganas ..	Alipur	13,767	8,581,743
Howrah.. ..	Howrah	1,489	2,420,095
Calcutta* ..	Calcutta	30	3,141,180
Hooghly ..	Chinsura	3,148	2,873,779
Burdwan ..	Burdwan	7,035	3,920,395
Birbhum ..	Suri	4,552	1,779,805
Bankura ..	Bankura	6,884	2,035,273
Midnapur ..	Midnapur	13,618	5,515,320
Purulia	Purulia	6,256	1,610,577

Major Cities (with population over 100,000): Calcutta (with 74 constituent units) 7,005,362 ; Durgapur, 207,232 ; Kharagpur 161,911 ; Asansol, 157,388 ; Burdwan, 144,970.

No. of Villages : 38,826.

State Boundaries : The State is bound by Sikkim and Bhutan in the north, Assam and Bangla Desh in the east, Bay of Bengal in the south and Orissa, Bihar and Nepal in the west.

State Languages : Bengali and English.

AGRICULTURE

Rice and jute are the main crops produced in West Bengal, rice on over 4·8 million hectares and jute on about 500,000 hectares. The net area sown is about 5·5 million hectares, the area sown more than once being less than 20 per cent of the area sown.

Please see chapter on "Agriculture" for the main crops, production and area sown respectively.

Land Ceiling : Has been fixed at 7 hectares in irrigated areas and 9·80 hectares in non-irrigated areas. The ceiling on land for orchards has been fixed at 2·00 hectares according to a bill passed in April 1972.

Forests : The State's forest extends over 12,111 sq. kms.

The types of timber found in the forests are : *Shorea robusta, tactona grandis, michelia champaka, schima wallichi, Chukrasia tabularis, betula species, abies, densa, oaks, pinus,* etc.

Irrigation and Power Projects (Please see the main chapter on "Irrigation & Power").

INDUSTRIES

West Bengal is a major industrial State of India. Its industrial output is over 20 per cent of the whole country. The coal output of the State is about 30 per cent of the all-India coal production.

The number of registered working factories in the State increased from 5,599 in 1969 to 5,612 in 1970. The average daily employment also rose from 791,000 to 809,000 in 1970.

Production : The following are the names of some of the major industries and their production during 1970 :—Jute Textiles : 890,000 tonnes ; Cotton Textiles (Mill Sector) : Cotton Yarn : 39·8 million kgs. ; Cotton Cloth : 151·1 million metres ; Iron & Steel :—Pig Iron 1·76 million tonnes ; Steel Ingots 1·43 million tonnes ; Finished Steel (excluding unregistered re-rollers) 1·01 million tonnes ; Tea : 103·0 million kgs. ; Sugar : 11,100 tonnes ; Paper 73·0 million kgs. ; Matches : 7·1 million gross ; Vanaspati : 590,000 quintals.

Small Scale Industries : During 1969 the number of small industrial units was 494,556 employing about 1·113 million persons and the net value added by these units amounted to Rs. 728 million.

Some important particulars relating to small industries are given in the following table :

Name	No. of establishments	Average No. of workers
Food	97,504	2·18
Beverage & Tobacco	30,529	2·56
Textile	97,029	2·69
Footwear, readymade garments, leather and leather products	44,220	1·70
Wood	11,538	1·90
Furniture	10,677	1·56
Paper & paper products, printing, publishing and allied industries	4,750	3·43
Rubber products, chemicals and chemical products & products of petroleum and coal	1,973	3·20
Structural clay products ..	3,117	4·74
Glass & glass products (other than optical lenses).. ..	30,113	2·39
Miscellaneous	147,212	9·44

INDUSTRIAL DEVELOPMENT AGENCIES

West Bengal Industrial Development Corporation Ltd. (23/A, Netaji Subhas Road, Calcutta 700001).

West Bengal Financial Corporation (4, Kiron Sankar Roy Road, Calcutta 700001).

West Bengal Small Industries Corporation Ltd. (45, Ganesh Chandra Avenue, Calcutta 700013).

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* Calcutta district comprises of Calcutta city only.

West Bengal State Warehousing Corporation (45, Ganesh Chandra Avenue, Calcutta-16).

Besides the above mentioned agencies, the **Industrial Finance Corporation of India** (Burmah Shell House, Connaught Circus Annexe II, New Delhi having its branch office in Calcutta); the **Board of Industries**, under the **Cottage and Small-Scale Industries Department,** West Bengal; **State Bank of India ; Life Insurance Corporation of India ; National Small Industries Corporation of India ; Industrial Reconstruction Corporation of India** (having headquarters in Calcutta) etc. also accord financial assistance to Industrial units.

LABOUR (1970):

Total No. of working factories : 6,038 ; No. of workers : 808,573 ; Government and local factories : 250 ; No. of workers : 137,000 ; Workers in mines : 115,000 ; Employees in manufacturing industries : 611,000.

Jobless : West Bengal has the largest number of educated unemployed numbering 369,000. Uttar Pradesh, Kerala and Maharashtra come next in the order with 232,000 ; 201,000 and 199,000 respectively (1971).

No. of Unions : 2,789 ; No. submitting returns : 992 ; Membership of Unions submitting returns : 667,000.

Accidents : Fatal : 104 ; Non-fatal : 78,394.

Industrial Disputes: (1971) : No. of disputes : 340 ; No. of workers involved : 191,545 ; No. of mandays lost : 5,470,068.

EDUCATION (1966 statistics)

	No. of schools	No. of pupils Boys	Girls
Pre-primary	162	8,420	9,174
Primary/Junior Basic Schools	32,645	2,419,821	1,389,436
Middle/Senior Basic Schools	2,379	546,458	238,134
High Schools incl. Multi-Purpose H. Schools ..	1,356	238,320	83,551
Teacher-Training Schools	81	2,614	1,029
Pre-Primary Teacher Training Schools ..	2	—	74
Schools for the Handicapped	11	459	282

	No. of colleges	Students Men	Women
Arts & Science Colleges ..	161	89,053	45,700
Commerce Colleges ..	11	27,505	273
Colleges for Physical Education	1	112	14
Teachers' Training Colleges	14	1,945	1,285

Universities: The following are the names and addresses of the universities with number of students respectively ; *University of Burdwan*, Rajbati, Burdwan 713101 ; 36,067 ; *University of Calcutta*, Senate House, Calcutta 700012 ; 196,257 ; *Jadavpur University*, Calcutta 700032 ; 4,760 ; *University of Kalyani*, Kalyani 741235 ; 2,074 ; *University of North Bengal*, Rajaram-Mohanpur, Darjeeling ; 26,191 ; *Rabindra Bharati University*, 6/4, Dwarkanath Tagore Lane, Calcutta 700007 ; 3,854 ; *Visva-Bharati*, Santiniketan 731235 ; —.

PUBLIC HEALTH

No. of Hospitals & Beds : Sub-divisional and District Hospitals : 40 ; Beds 4,839 ; State Hospitals : 25 ; Beds : 10,804 ; T. B. Sanatoria : 73 ; Beds 4,619 ; Malaria Control Units : 26 ; No. of Leprosy Clinics : 102 ; V. D. Treatment Centres : 70 ; Rural Health Centres : 773 ; Beds : 5,342 ; Medical Colleges : 6 ; Capacity of Medical Colleges : 655 ; No. of Nurses : 10,000. Per capita expenditure on medical and public health : Rs. 6·47.

COMMUNICATIONS

Passenger buses : 9,930 ; Goods vehicles : 32,020 ; Jeeps, cars and taxi cabs 98,340 ; Motor cycles, scooters and autorikshaws 20,893 ; Miscellaneous vehicles : 5,329 ; Total : 166,512.

Roads : Length of national highways in the State : 1,370 kms. ; Surfaced roads : 19,300 kms. ; Unsurfaced roads : 39,800 kms. ; Total length of roads — maintained by P.W.D. and Local Bodies : 59,100 kms.

Press : Leading dailies with their circulation figures.

English : Amrita Bazar Patrika, Calcutta 700003 ; 108,384 ; Hindustan Standard, Calcutta 700001 ; 56,777 ; Statesman, Calcutta 700001 ; 125,851.

Hindi : Sanmarg, Calcutta 700007 ; 17,356 ; Vishwamitra, Calcutta 700001 ; 43,445.

Bengali : Ananda Bazar Patrika, Calcutta 700001 ; 251,224 ; Jugantar, Calcutta 700003 ; 181,598.

GENERAL

Rivers : The Ganga, the Damodar, the Bhagirathi, the Hooghly, the Mayurakshi, the Rupnarayan, the Ajoy, the Kasai, the Teasta and the Torsa.

Five Year Plan : During the first four-years of the Fourth Plan the aggregate Plan outlay had been Rs. 2,400 million. The outlay for 1973-74 (the last year of the Plan). had been fixed at Rs. 900 million against Rs. 735 million in 1972-73.

GOVERNMENT OF INDIA PERSONNEL

(Corrected upto June 15, 1973).

President : V. V. Giri.

President's Secretariat, Rashtrapati Bhavan, New Delhi 110004.

Secretary, Asok Mitra ; *Joint Secretary*, P. N. Krishna Mani ; *Press Secretary*, A. M. Abdul Hamid ; *Mily. Secretary & Chief Commandant, President's Bodyguard*, Maj-Gen. R. L. Chopra.

Vice-President : G. S. Pathak.

Vice-President's Secretariat :

Secretary to the Vice-President, V. Phadke ; *Private Secretary*, A. D. Joshi.

CABINET MINISTERS

Prime Minister in charge of Atomic Energy, Electronics, Steel & Mines, Information & Broadcasting and Space, Mrs. Indira Gandhi ; *Agriculture*, Fakhruddin Ali Ahmed ; *Finance*, Y. B. Chavan ; *Defence*, Jagjivan Ram ; *External Affairs*, Sardar Swaran Singh ; *Planning*, D. P. Dhar ; *Home Affairs*, Uma Shankar Dikshit ; *Law & Justice and Company Affairs*, H. R. Gokhale ; *Steel & Mines*, Mrs. Indira Gandhi ; *Heavy Industry*, T. A. Pai ; *Shipping & Transport*, Raj Bahadur ; *Tourism & Civil Aviation*, Dr. Karan Singh ; *Industrial Development and Science &*

Technology, C. Subramaniam; *Works & Housing*, Bhola Paswan Shastri; *Parliamentary Affairs*, K. Raghuramiah; *Petroleum & Chemicals*, Dev Kanta Borooah; *Railways*, L. N. Mishra.

Ministers of State

Communications, H. N. Bahuguna; *Health & Family Planning*, R. K. Khadilkar; *Education, Social Welfare & Culture*, Prof. S. Nurul Hasan; *Supply*, Shah Nawaz Khan; *Labour & Rehabilitation*, K. V. Raghunatha Reddy; *Commerce*, Prof. D. P. Chattopadhyaya; *Irrigation & Power*, Dr K. L. Rao (These Ministers are independent charge of their portfolios) — *Law & Justice and Company Affairs*, Nitiraj Singh Chaudhary; *Planning*, Mohan Dharia; *Finance*, K. R. Ganesh; *Information & Broadcasting*, I. K. Gujral; *Tourism & Civil Aviation*, Dr. Mrs. Sarojini Mahishi; *Parliamentary Affairs, Works & Housing*, Om Mehta; *Home Affairs*, Ram Niwas Mirdha; *Home Affairs and also to assist the Prime Minister in Parliamentary work relating to Deptts. of Atomic Energy, Electronics and Space*, K. C. Pant; *Agriculture*, Annasaheb P. Shinde, Prof. Sher Singh; *Defence Production*, V. C. Shukla; *External Affairs*, Surendra Pal Singh; *Shipping & Transport*, M. B. Rana.

Deputy Ministers

Home Affairs, F. H. Mohsin; *Law & Justice and Company Affairs*, Bedabrata Barua; *Commerce*, A. C. George; *Health & Family Planning*, A. K. Kisku, Kondaji Basappa; *Communications*, Jagannath Pahadia; *Railways*, Mohd. Shafi Qureshi; *Finance*, Mrs. Sushila Rohatgi; *Education & Social Welfare*, D. P. Yadav, Arvind Netam; *Parliamentary Affairs*, B. Shankaranand, Kedar Nath Singh; *Heavy Industry*, Prof. Siddheswar Prasad; *Petroleum & Chemicals*, Dalbir Singh; *Information & Broadcasting*, Dharam Bir Sinha; *Irrigation & Power*, Balgovind Verma; *Defence*, J. B. Patnaik; *Industrial Development*, P. K. Mukherjee, Z. R. Ansari; *Steel & Mines*, Subodh Chandra Hansda, Sukhdev Prasad; *Labour & Rehabilitation*, G. Venkataswamy.

PRIME MINISTER'S SECRETARIAT, New Delhi 110011.

Secretary to the Prime Minister, P. N. Dhar; *Joint Secretaries*, B. N. Tandon, G. Ramachandran; *Director*, H. Y. Sharada Prasad; *Private Secretaries*, S. P. Khanna (*Admn.*), N. K. Seshan (*Personal*), *Spl. Assistant to the Prime Minister* (*Science & Tech.*), A. Parthasarathy; *Private Secretaries*, R. K. Goel (*Public*), N. S. Sreeraman (*Special*); *Social Secretary*, Miss Usha Bhagat.

CABINET SECRETARIAT, Rashtrapati Bhavan, New Delhi 110004.

Cabinet Secretary, B. D. Pande; *Secretary*, R. R. Bahl; *Director-General of Vigilance*, S. W. Shiveshwarkar; *Spl. Secy.*, R. N. Kao; *Secretary and Chaiman, Joint Intelligence Cttee.*, R. N. Chopra; *Joint Secretaries*, J. S. Mongia, K. S. Nair, N. F. Suntook, Gurbachan Singh.

Central Bureau of Investigation, Hqrs. Office: Sardar Patel Bhavan, Parliament St., New Delhi 110001.

Director, CBI & IGP, SPE, D. Sen, I.P.S.; *Jt. Directors, CBI & SPL, IGP, SPE*, S. Venugopal Rao, I.P.S.; Dharmaraj, I.P.S., P. V. Hingorani.

Enforcement Directorate, North Block, Room No. 265, Central Sectt, New Delhi 110001.

Director, A. K. Ghosh, I.P.; *Addl. Director*, S. B. Jain; *Delhi Zonal Office* — Reserve Bank of India, New Delhi 110001; *Bombay Zonal Office*—Janmabhoomi Chambers, Walchand Hirachand Marg, Bombay 400001; *Calcutta Zonal Office* — 8, Lindsay St., Calcutta 700016; *Special Unit Calcutta*-225-C, Lower Circular Rd., Calcutta 700014; *Madras Zonal Office* — Shastri Bhavan, 35-Haddows Rd., Madras 600006; *Varanasi Sub-Zonal Office* — D/58/12-36 Gandhi Nagar, (*Sigra*), Varanasi 221001; *Jullundur-Sub-Zonal Office* — No. 208, New Jawahar Nagar, Jullundur 144001; *Jaipur Sub-Zonal Office* — Jaipur 302001; *Ahmedabad Sub-Zonal Office* — Ratilal K. Desai's Bungalow, Chandra Colony, Ellis Bridge, Ahmedabad 380006; *Goa Mobile Unit* — Shanta Bldg., Stinez, Panaji, 403001; *Bangalore Sub-Zonal Office*— "Pushpani", No. 15 X Main Rd., Vasanth Nagar, Bangalore 560001; *Hyderabad Sub-Zonal Office* — No. 3-4-746, Kachiguda, Univ. Rd., Hyderabad 400027; *Madurai Unit* — Central Revenue Bldg., Madurai 625001; *Kozhikode Sub-Zonal Office* — Narayanaiyar Mayoor Rd., Calicut 673004; *Trivandrum Sub-Zonal Office* — Ushus, Thuvila Rd., Trivandrum 695001.

Lal Bahadur Shastri Academy of Administration, Charleville, Mussoorie.

Director, D. D. Sathe, I.C.S.; *Jt. Director*, M. Gopalakrishnan, I.A.S.

RAJYA SABHA SECRETARIAT, New Delhi 110001.

Chairman, G. S. Pathak; *Dy. Chairman*, G. Murahari; *Secretary*, B. N. Banerjee.

LOK SABHA SECRETARIAT, New Delhi 110001.

***Speaker*, Dr. G. S. Dhillon; *Deputy Speaker*, G. G. Swell; *Secretary*, S. L. Shakdher.**

DEPARTMENT OF ATOMIC ENERGY, Chhatrapati Shivaji Maharaj Marg, Bombay 400001.

Minister, Mrs. Indira Gandhi; *Minister of State*, K. C. Pant.

***Chairman, Atomic Energy Commission, and Secretary to the Govt. of India*, H. N. Sethna.**

Members, M. G. Kaul, Dr. Raja Ramanna, J. R. D. Tata, P. N. Haksar, Prof. S. Dhawan, *Spl. Secretary*, R. Bhaktavatsalu, *Addl. Secretary*, N. S. Siva; *Jt. Secretaries*, M. A. Hadi, V. D. Sonde; *Secretary to the AEC*, R. C. Sharma; *Chairman, Atomic Power Authority*, J. C. Shah.

Chairman, Rajasthan & Madras Atomic Power Board and Director, Power Projects Engg. Dn., V. Surya Rao; *Director, Bhabha Atomic Research Centre, Trombay, Bombay*, Dr. Raja Ramanna; *Head, Pub. Division*, P. K. Nagarajan; *Editor, "Nuclear India"*, Jagannath Sharma.

Indian Space Research Organisation, (ISRO) Sahjanand College Bldg., 380015; P.O. Science Institute, Bangalore 560012.

(Operates Vikram Sarabhai Space Centre (VSSC) of the Government of India at Thumba-Veli Hill near Trivandrum; is establishing facilities on Sriharikota Island on the east coast for launching satellites; supports and encourages programmes of research including optical and radio tracking and real time telemetry from satellites; has set up the Space Applications Centre in Ahmedabad; has responsibility for the ground segment of the joint instructional television experiment using NASA's ATS-F satellite in 1975; is building a satellite to be launched from the territory of USSR under an agreement entered into with the Academy of Sciences of the USSR.

Chairman, Dr. S. Dhawan; *Secretary*, Prof. E. V. Chitnis; *Scientific Coordinator*, Prof. P. D. Bhavsar.

DEPARTMENT OF COMPANY AFFAIRS, Shastri Bhavan, Dr. Rajendra Prasad Rd., New Delhi 110001.

Minister, H. R. Gokhale; *Minister of State*, Nitiraj Singh Chaudhary; *Dy. Minister*, Bedabrata Barua; *Secretary, Deptt. of Company Affairs & Chairman, Company*

Law Board, R. Prasad, I.C.S. ; *Secretary*, Vacant ; *Jt. Secretaries, Deptt. of Company Affairs & Members, Company Law Board*, C. C. Ganapathy, P. B. Menon ; *Director of Investigation & Inspection*, C. M. Narayanan ; *Addl. Director*, S. M. Yousuf ; *Directors*, N. K. Sen Gupta and (Miss) R. Majumdar.

NORTHERN REGION

Regional Director, Kanpur, J. P. Mukherjee ; *Registrar of Companies, Kanpur*, S. C. Basu ; *Registrar of Companies, Delhi*, Surendra Kumar ; *Registrar of Companies, Jullundur*, B. K. Chatterjee ; *Registrar of Companies, Jaipur*, P. S. Mathur ; *Registrar of Companies, Srinagar*, N. S. Gupta.

WESTERN REGION

Regional Director, Bombay, S. Rajagopalan ; *Registrar of Companies, Bombay*, R. N. Bansal ; *Registrar of Companies, Gwalior*, Mahesh Prasad ; *Registrar of Companies, Ahmedabad*, J. G. Gatha ; *Registrar of Companies, Goa*, R. V. Medhi.

EASTERN REGION

Regional Director, Calcutta, P. K. Mallik ; *Registrar of Companies, Calcutta*, P. R. Mukhopadhaya ; *Registrar of Companies, Shillong*, T. K. S. Biswas ; *Registrar of Companies, Cuttack*, S. N. Guha ; *Registrar of Companies, Patna*, S. P. Tayal ; *Registrar of Companies, Port Blair*, R. K. Ahuja.

SOUTHERN REGION

Regional Director, Madras, S. C. Bafna ; *Registrar of Companies, Madras*, A. G. Sirsi ; *Registrar of Companies, Hyderabad*, O. P. Jain ; *Registrar of Companies, Ernakulam*, K. K. Syed Mohd. ; *Registrar of Companies, Bangalore*, G. Srinivasan ; *Registrar of Companies, Pondicherry*, Seetharam.

DEPARTMENT OF ELECTRONICS, Vigyan Bhawan Annexe, New Delhi 110001.

Secretary, M. G. K. Menon ; *Directors :* P. Abraham, Dr. Ram K. Vepa, N. T. Taokar, T. R. Raman, Dr. N. W. Nerurkar.

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Department of Agriculture

Secretary, Tribeni Prasad Singh ; *Director-General, I.C.A.R. and Secretary*, Dr. M. S. Swaminathan ; *Addl. Secretaries*, B. C. Kapur, I. J. Naidu ; *Inspector-General of Forests and Ex-officio Addl. Secretary*, T. N. Srivatsava ; *Jt. Secretaries*, Godwin Rose, Miss Anna R. George, M. K. Mukherji, B. B. Vohra, P. S. Appu, Q. M. Ahmed, M. Ahmed, K. P. Singh (*Secy., I.C.A.R.*), *Agri. Commissioner*, Dr. A. S. Chemma ; *Animal Husb. Commissioner*, C. Krishna Rao ; *Chairman, Agri. Prices Commission*, Dr. Dharm Narain ; *Commissioner (Fert.)*, Dr. S. R. Barooah ; *Chairman, National Commission on Agriculture*, (*Vigyan Bhavan Annexe, New Delhi* 110011), Nadhuram Mirdha.

Department of Cooperation

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Department of Community Development

Secretary, M. A. Qurashi ; *Jt. Secretary*, Dr. N. A. Agha ; *Jt. Commissioner (Trg.)*, J. S. Sarohia ; *Jt. Commissioner, Cash Programme for Rural Empl.*, S. M. Murshed.

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Director, S. B. P. Rao; *Jt. Directors*, M. V. Pavate (*Evaluation*); K. Ramachandran (*Dev.*); *Dy. Directors*, L. S. Joshi (*Marketing Planning*); J. Krishnamurthy (*Dev.*); K. T. Janabandhu (*Dev.*).

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Directorate of Arecanut & Spices, Calicut 673005.

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Directorate of Plant Protection, Quarantine & Storage, N.H. IV, Faridabad 121001.

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Chief Controller, S. G. Bose Mullick; *Jt. Chief Controllers*, Dr. S. P. Chablani, T. M. B. Nedungadi, K. N. R. Pillai, P. C. Nanda, S. R. Minocha.

Offices of the Jt. Chief Controllers of Imports & Exports

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Office of the Controller of Enemy Firms and Enemy Trading & Custodian of Enemy Property, Kaiser-I-Hind Bldg., Currimbhoy Rd., Bombay 400001.

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Forward Markets Commission, 'Everest', 100, Marine Drive, Bombay 400002.

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Rubber Board, Kottayam 686001.

Chairman, K. M. Chandy; *Director of Research*, Dr. C. K. N. Nair; *Secretary*, T. V. Joseph.

Tea Board, 14, Brabourne Rd., Calcutta 700001.

Chairman, B. R. Vohra, I.A.S.; *Dy. Chairman*, T. R. Broca, I.A.S.; *Vice-Chairman*, B. C. Biyani; *Secretary*, I. B. Ghosh; *Director of Tea Development*, M. K. Dutt; *Director of Tea Promotion*, Bimal Bose.

Coffee Board, P. Box No. 302, Bangalore 560001.

Chairman, H. V. G. Reddy; *Chief Coffee Marketing Officer*, B. Krishnamurthy; *Director of Propaganda*, V. Balu; *Development Officer*, R. Sathischander; *Director of Research*, Dr. G. I. D'Souza; *Secy.*, A. N. Balaram.

Office of the Textile Commissioner, New C.G.O. Bldgs., New Marine Lines, Bombay 400020.

Textile Commissioner, P. N. Kapur; ; *Jt. Textile Commissioner*, R. C. Saksena; *Industrial Adviser*, I. B. Dutt; *Adviser* (*Cotton*) R. Viswanathan.

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Weavers' Service Centres, *Bombay, Madras, Calcutta, Varanasi, Bangalore, Indore, Kancheepuram and Vijayawada.*

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All India Handicrafts Board, Block 7 (West), Ramakrishna Puram, New Delhi 110022.

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Development Commissioner, S. Rajgopal.

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Posts & Telegraphs Board

Dak Tar Bhavan, Parliament St., New Delhi 110001.

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MINISTRY OF EXTERNAL AFFAIRS, New Delhi 110011.

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Central Passport & Emigration Organisation

Jt. Secy., (*PV*) *& C.P.O.*, A. R. Sethi; *R.P.Os.*, P. H. Desai (*Ahmedabad*), Jai Dial (*Bombay*), B. M. Dutt (*Calcutta*), K. N. Moorti (*Chandigarh*), B. S. Mathur (*Lucknow*), N. Srinivasan (*Madras*), N. R. Mukherjee (*Delhi*).

MINISTRY OF FINANCE, North Block, New Delhi 110001.

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Department of Economic Affairs

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Department of Expenditure

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Chairman, Central Board of Excise & Customs and Ex-officio Addl. Secy., Jasjit Singh; *Members*, M. G. Abrol, K. Narasimhan, S. Venkatesan, J. Banerjee.

Central Board of Direct Taxes

Chairman, Central Board of Direct Taxes and Ex-officio Addl. Secy., R. D. Shah; *Members*, K. E. Johnson, S. R. Mehta, H. A. Shah, R. N. Limaye.

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Projects: *Western Region*, Makrapura Rd., Vadodara 390009; *Nawagam Project*, Yodha's Premises, Ellis Bridge, Ahmedabad 380009; *Ahmedabad Project*, Junction of Kaba Kalol Rd., Sabarmati, Ahmedabad 380005; *Bombay Offshore Project*, Nirmal, 10th Flr., Nariman Point, Bombay 400001; *Ankleshwar Project*, Ankleshwar; *Cambay Project*, P.O. Kansari (*Via Anand*); *Mehsana Project*, Near Aerodrome Rd., Mehsana 384001; *Eastern Region*, P. O. Nazira (Sibsagar Dist. — Assam); *Cauvery Project*, Sir Thyagaraja Rd., T. Nagar, Madras 600017. *Jaisalmer Project*, 8, Residency Rd., Jodhpur 342001; *Port Canning Project*, 24, Parganas Dist. — W. Bengal; *Surin Mastgarh Project*, Gandhi Nagar, Jammu 180001; *Tripura Project, 79th Tilla*, Ban Kutia, P.O. Kunjban, Agartala 799001 (Tripura).

Indian Oil Corporation, 254-C, Dr. Annie Besant Rd., Prabhadevi, Bombay 400025.

Chairman, M. Ramabrahmam; *Public Relations Manager*, B. V. Ranganath; *Secretary*, D. B. Puri.

Marketing Division

Managing Director, Kamaljit Singh; *Gen. Manager*, R. N. Bhatnagar; *Dy. Gen. Managers*, J. C. Goyle, T. Kumaran; *Aviation Manager*, M. A. Ananth; *Chief Technical Engr.*, K. Sitharama Rao; *Retail Manager*, Indu Vira; *Engg., Manager*, M. J. Saldanha; *Management Services Manager*, B. M. Lal; *Manager, Plng., Research & Statistics*, R. Gurumoorthy; *Operations Manager*, D. N. Sharma; *Supply & Distribution Manager*, B. K. Bakhshi; *Financial Controller*, K. L. Goel; *Manager, Personnel & Adm.*, Bimal Kapoor; *Controller of Purchase & Stores*, K. Rajgopaul; *Branch Managers, Bombay*, M. S. Rana; *Calcutta*, R. M. Basrur; *New Delhi*, J. Jayaraman; *Madras*, C. Y. V. Rao; *Govt. Supplies, Delhi*, M. M. Lal.

BRANCHES: *Western Branch*: Clarke Rd., Mahalaxmi, Bombay 400034; *Northern Branch*: Indian Oil Bhavan, Janpath, New Delhi 110001; *Eastern Branch*: 1, Shakespeare Sarani, Calcutta 700016; *Southern Branch*: "Khivraj Mansion". 150A, Mount Rd., Madras 600002.

Refineries Division, Indianoil Bhavan, Janpath, New Delhi 110001.

Managing Director, C. R. Das Gupta; *Dy. Gen. Manager*, Dr. H. K. Joshi; *Chief Administrative Manager*. O. P. Sehgal; *Personnel Manager*, V. P. Baliga; *Dy. Gen-Manager* (*Pipelines*), M. Lakshmanan; Gauhati Office; Gauhati Refinery, P. O. Noonmati, Gauhati (Assam): *Ag. Gen. Manager*, G. S. Harnal; Barauni Refinery, P. O. Oil Refinery, Monghyr; *Gen. Maanger*, K. T. Sinha; Gujarat Refinery: P.O. Jawaharnagar, Vadodara; *Gen. Manager*, K. Krishnamoorthy; Haldia Refinery Project, P. O. Midnapore, Kolaghat; *Gen. Manager*, N. S. V. Sastri.

Indian Drugs & Pharmaceuticals Ltd., N-13, South Extn., Part I, New Delhi 110049.

Chairman & Managing Director, Jagjit Singh; *Financial Adviser & Chief Accounts Officer*, V. R. Ganesan; *Chief Marketing Manager*, V. P. Kumar; *Chief of Public Relations*, Krishna Chandra.

At the Projects

Gen. Manager, Antibiotics Plant, Rishikesh, N. S. P. Chawla; *Gen. Manager, Synthetic Drugs Plant, Hyderabad*, Dr. L. K. Behl; *Gen. Manager, Surgical Instruments Plant, Madras*, R. Sundaracharlu.

Geological Survey of India, 27, J. L. Nehru Rd., Calcutta 700013.

Director-General, Dr. M. K. Roychowdhury; *Dy. Directors-General*, V. K. S. Varadan (*Hqrs.*), V. S. Krishnaswami;

(*N. Region*—3, *Gokhale Marg, Lucknow* 226005) ; S. Narayanaswami (*W. Region — Prithviraj Marg, Jaipur* 302017) ; C. Karunakaran (*S. Region* — 5-5-449, *Mukarram Jani Rd., Hyderabad* 500001); Muktinath (*Central Region — New Secretariat Bldg., Nagpur* 440001) ; P. K. Chatterjee (*Eastern Region* — 5, *Middleton St., Calcutta* 700016).

MINISTRY OF PLANNING, Yojana Bhavan, Parliament St., New Delhi 110001.

Minister, D. P. Dhar ; *Minister of State*, Mohan Dharia.

Department of Statistics, Sardar Patel Bhavan, Parliament St., New Delhi 110001.

Director, N. T. Mathew.

National Sample Survey Organisation, Block VIII, Wing 6, Ramakrishnapuram, New Delhi 110022. *Regional Offices :* Everest Bldg., Opp. Marine Lines Stn., Bombay 400002 ; 27 and 29, Brabourne Rd., Calcutta 700001 ; 35, Haddows Rd., Madras 600006.

MINISTRY OF RAILWAYS, Rail Bhawan, New Delhi 110001.

Minister, L. N. Mishra ; *Dy. Minister*, Mohd. Shafi Qureshi ; *Railway Board : Chairman & Ex-Officio Principal Secretary to the Govt. of India*, B. S. D. Baliga ; *Financial Commissioner & Ex-Officio Secretary*, K. S. Sundara Rajan ; *Members & Ex-Officio Secretaries*, B. M. Kaul (*Traffic*), H. M. Chatterjee (*Mechanical*), M. N. Bery (*Staff*) ; *Addl. Members*, K. V. Kasturi Rangan (*Staff*), K. S. Bhandari (*Finance*), B. D. Mehra (*Commercial*), U. S. Rao (*Works*), J. D. Malhotra (*Elec. Engg.*), K. L. Bery ; *Secretary*, H. F. Pinto, *Jt. Secretary & Legal Adviser*, G. Venkatasubramaniam.

Research, Designs & Standards Organisation, Alambagh, Lucknow 226011.

Director-General, M. Srinivasan ; *Dy. Dir.-Gen.*, N. Nilakanta Sarma.

Railway Rates Tribunal, 1, Pughs' Rd., Madras 600028.

Chairman, S. Barman ; *Members*, L. D. Panke, S. K. Bose ; *Secretary*, K. S. Shankaraiya.

Chittaranjan Locomotive Works, Chittaranjan 713331.

General Manager, A. L. Kochhar ; *Chief Mech. Engineers*, G. N. Potti, (*SF*), K. S. Ramaswamy (*W*) ; *Chief Elect. Engineer :* M. L. Kullar.

Integral Coach Factory, Perambur, Madras 600038.

General Manager, J. Matthan ; *Chief Mech. Engineer*, A. Balakrishnan ; *Financial Adviser & Chief Accounts Officer*, M. Sundar Raj ; *Public Relations Officer*, V. R. Ramanathan.

MINISTRY OF SCIENCE & TECHNOLOGY, Yojana Bhavan, Parliament St., New Delhi 110001.

Minister, C. Subramaniam ; *Secretary*, A. Ramachandran.

MINISTRY OF SHIPPING AND TRANSPORT, Transport Bhavan, Parliament St., New Delhi 110001.

Minister, Raj Bahadur ; *Minister of State*, M. B. Rana ; *Secretary*, M. G. Pimputkar ; *Jt. Secretary, Chairman, Inter-State Transport Commission*, N. R. Reddy ; *Jt. Secretary*, G. C. Baveja ; *Director-General* (*Road Dev.*) *and Addl. Secretary*, S. N. Sinha ; *Development Adviser*, Brig. O. P. Narula ; *Secretary, Border Roads Development Board and Ex-Officio Jt. Secretary*, S. K. Chhibber ; *Chief Controller of Chartering and Ex-Officio Jt. Secretary*, N. R. Reddy ; *Director-General of Border Roads*, Major-Gen. J. S. Bawa ; *Chairman, National Shipping Board*, S. B. P. Pattabirama Rao.

Directorate-General of Shipping, Jahaz Bhavan, Walchand Hirachand Marg, Bombay 400001.

Director-General of Shipping, S. V. Bhave, I.A.S. ; *Sr. Dy. Director-General of Shipping*, Vacant ; *Deputy Directors-General of Shipping*, G. S. Banerji, I.A.S., N. K. Gopalan Nair, D. N. Phull, A. J. Joglekar.

Technical Officers

Nautical Adviser to the Govt. of India, Capt. M. S. Patel ; *Chief Surveyor with the Govt. of India*, B. K. Gupta.

Directorate of Marine Engineering Training, P. 19, Taratolla Rd., Calcutta, 700053.

Branch : Hay Bunder, Tank Rd., Bombay 400033.

Director, T. K. T. Srisailam.

Mercantile Marine Department, C. G. O. Bldg., South Wing, M. Karve Rd., Bombay 400020.

Other Offices : Marine House, Hastings, Calcutta 700022 ; Old High Court Bldgs., Madras 600001 ; 57, Harbour Approach Rd., Visakhapatnam 530001 ; Willingdon Island, Cochin 682003 ; "Taj Prakash Bhavan", Pandit Nehru Rd., Jamnagar 361001 ; Panaji, 403001, Mormugao, Goa.

Seamen's Welfare Office, Nou Bhavan, Nicol Rd., B. Estate, Bombay 400001.

Principal Seamen's Welfare Officer, B. K. Shroff. CALCUTTA—Marine House, Hastings, Calcutta 700022 ; *Principal Seamen's Welfare Officer*, N. C. Trivedi. MADRAS — Old High Court Bldg., Madras 600001 ; *Seamen's Welfare Officer*, K. V. Sugavaneswaran.

Lighthouse and Lightships Department, East Block X, Level IV, Ramakrishnapuram, New Delhi 110022.

Director-General of Lighthouses & Lightships and Chief Inspector of Lighthouses in India, Commodore G. S. Kapoor, I.N. (Retd.).

Engineers (*Civil*), K. R. Bose (*Calcutta*), S. L. Kapoor (*Jamnagar*) ; *Directors of Lighthouses & Lightships*, N. R. Gopalswami (*Cochin*), C. V. Chaubal (*Madras*), B. R. Karnik (*Bombay*), M. D. Basu (*Calcutta*), J. N. Mankad (*Port Blair*), K. V. Mohan Rao (*Jamnagar*), E. U. Rao (*Hqrs.*), I. G. Arjunani (*Hqrs.*), *Adm. Officer*, C. V. S. Murty.

MINISTRY OF STEEL & MINES, Udyog Bhavan, New Delhi 110011.

Minister, Mrs. Indira Gandhi ; *Spl. Asstt.*, S. R. Sankaran ; *Dy. Ministers*, Sukhdev Prasad, Subodh Hansda.

Department of Steel : *Secretary*, M. A. Wadud Khan ; *Addl. Secy.*, K. G. R. Iyer ; *Joint Secretaries*, S. K. Guha, M. Prasad, K. V. Ramanathan, S. S. Sidhu ; *Economic Adviser*, Dr. G. Balakrishnan ; *Sr. Industrial Adviser*, Hari Bhushan ; *Directors*, Ramji, V. K. Dar, C. B. Rau ; *Industrial Advisers*, S. Vangala, S. K. Kashyap ; *Project Officers*, G. N. Puri, N. Jaganathan.

Iron & Steel Control Organisation, 234/4, Acharya Jagadish Bose Rd., Calcutta 700020.

Iron and Steel Controller, T. Ghosh ; *Dy. Iron & Steel Controllers :* S. C. Mukherjee, C. L. Deb ; *Price & Accounts Officer*, R. N. Chaudhuri.

Steel Authority of India Ltd. (SAIL), Udyog Bhavan, New Delhi 110011.

Chairman, M. A. Wadud Khan ; *Full-time Directors*, M. P. Wadhawan (*Finance*), A. C. Banerjee (*Technical*), Dr. N. C. B. Nath (*Commercial*) ; *Secretary*, A. R. Shankaranarayanan.

Hindustan Steel Ltd., Ranchi 834002.

Chairman, H. Bhaya; *Secretary,* Rajendra Singh; *Adviser (Tech.),* P. K. Paul; *Gen. Manager (Research & Dev.)* Dr. S. Ramachandran; *Gen. Managers,* P. R. Ahuja (*Bhilai Steel Plant*); Dr. P. L. Agrawal (*Rourkela Steel Plant*); Bagaram Tulpule (*Duragapur Steel Plant*); C. S. N. Naidu (*Alloy Steel Plant, Durgapur*); *Dy. Gen. Manager, Central Coal Washeries Organisation, Dhanbad,* D. K. Basu.

Department of Mines

Secretary, K. S. R. Chari; *Joint Secretaries,* T. N. Lakshminarayanan, I.A.S., S. B. Lal, I.A.S., S. K. Guha, I.A.S.

Indian Bureau of Mines, Nagpur 440001.

Controller, K. S. Mahapatra; *Controllers of Mines,* D. N. Bhargava, D. M. Sen; *Suptdg. Officer (Ore Dressing),* N. Subramanyan; *Regional Controllers of Mines,* S. K. Das Gupta (*Hazaribagh*), S. K. Chaudhury (*Calcutta*), G. V. Rao (*Bangalore*), C. P. S. Nair (*Hyderabad*), Amir Singh (*Ajmer*), S. S. Deshi (*Goa*), Dr. S. C. Singhal, S. Balagopal, N. L. Chatterjee, O. P. Sachdeva, Suresh Chand (*Nagpur*).

Coal Mines Authority of India Ltd., Industry House, 10, Camac St., Calcutta 700017.

Coal Controller, 1, Council House St., Calcutta 700001.

MINISTRY OF TOURISM & CIVIL AVIATION,

Sardar Patel Bhavan, Parliament St., New Delhi 110001.

Minister, Dr. Karan Singh; *Minister of State,* Dr. Smt. Sarojini Mahishi; *Secretary,* N. Sehgal; *Jt. Secretary,* N. Khosla; *Director General of Civil Aviation,* S. Ramamritham; *Dy. Directors-General,* B. S. Gidwani, M. C. Dikshit; *Addl. Director-General of Tourism,* Dr. Ajit Mazoomdar.

Air Route and Aerodromes Organisation, *Regional Director; W. Region, Bombay,* S. K. Godbole; *Controllers of Aerodromes,* V. K. Tampi (*Madras*); J. S. Chowdhury (*Delhi*); B. Hajra (*Calcutta*).

Commission of Railway Safety, 16-A, Ashok Marg, Patiala House, Lucknow 226001.

Commissioner of Railway Safety, G. S. Pandor; *Dy. Commissioners,* P. M. N. Murthy, H. G. S. Rae (*S. & T.*); *Addl. Commissioners:* G. S. Pandor (*W. Circle, Bombay*), Arya Bhushan (*N.E. & S.E. Circle, Calcutta*), B. K. Mitra (*N. Circle, Lucknow*), B. M. N. Murthy (*S. Circle, Bangalore*).

MINISTRY OF WORKS, HOUSING AND URBAN DEVELOPMENT,

Nirman Bhavan, New Delhi 110011.

Minister, Bhola Paswan Shastri; *Minister of State,* Om Mehta; *Secretary,* A. N. Kidwai, I.C.S.; *Jt. Secretaries,* Kartar Singh, I.A.S., P. Prabhakar Rao, I.A.S., S. Chaudhuri.

Printing and Stationery Department, 'B' Wing, Nirman Bhawan, New Delhi 110011.

Chief Controller of Printing & Stationery, P. K. Sen; *Controller of Adm.,* N. Nadula; *Controller of Printing,* A. C. Das Gupta.

SUPREME COURT OF INDIA,

Tilak Marg, New Delhi 110001.

Chief Justice of India, A. N. Ray; *Judges:* Justice P. Jagan Mohan Reddy; Justice D. G. Palekar, Justice H. R. Khanna, Justice K. K. Mathew, Justice M. H. Beg; Justice S. N. Dwivedi; Justice A. K. Mukherjea; Justice Y.V. Chandrachud; Justice A. Alagiriswamy; Justice I. D. Dua; Justice C. A. Vaidialingam; Justice V. R. Krishna Iyer; Justice P. N. Bhagwati.

Registrar, M. P. Saxena.

UNION PUBLIC SERVICE COMMISSION,

Dholpur House, Shahjahan Rd., New Delhi 110011.

Chairman, Dr. A. R. Kidwai; *Members,* Maj. Gen. P. C. Gupta, Dr. M. L. Shahare, Prof. H. N. Ramachandra Rao, R. N. Muttoo, Dr. A. K. Dhan; *Secretary,* Rajendra Lal.

CENTRAL VIGILANCE COMMISSION,

No. 3, Dr. Rajendra Prasad Rd., New Delhi 110011.

Central Vigilance Commissioner: B. K. Acharya; *Secretary,* L. M. Bhatia.

MONOPOLIES & RESTRICTIVE TRADE PRACTICES COMMISSION,

Travancore House, Kasturba Gandhi Marg, New Delhi 110001.

The Commission started functioning from August 6, 1970. The Monopolies and Restrictive Trade Practices Act, 1969 has been enacted to ensure that the operation of the economic system does not result in the concentration of economic power to the common detriment and to provide for the control of monopolies and the prohibition of monopolistic and restrictive trade practices. The Commission will make enquiries and report to the Central Govt. on matters referred to it by the Central Govt. under various sections dealing with the expansion of existing undertakings, establishment of new ones, and matters relating to mergers, amalgamations or takeovers. As regards Restrictive Trade Practices, the Commission will function like a Court. Appeals against the Commission's orders lie with the Supreme Court.

Chairman, Justice K. L. Nain; *Members,* D. Subramanian, Dr. H. K. Paranjape; *Dy. Secy.,* T. N. Pandey.

ELECTION COMMISSION,

Ashok Rd., New Delhi 110001.

Chief Election Commissioner, T. Swaminathan; *Dy. Election Commissioners,* P. I. Jacob, P. Roy; *Secretaries,* A. N. Sen, V. Nagasubramanian, B. N. Bhardwaj.

PLANNING COMMISSION,

Yojana Bhavan, Parliament St., New Delhi 110001.

Chairman, Smt. Indira Gandhi; *Minister of Planning, and Deputy Chairman, Planning Commission,* D. P. Dhar; *Minister of State,* Mohan Dharia; *Members,* Prof. S. Chakravarty, Dr. B. S. Minhas, B. Sivaraman, M. S. Pathak; *Principal Secretary,* B. D. Pande; *Advisers (Programme Adm.) & Ex-officio Addl. Secy.,* B. S. Manchanda, S. Vohra, R. K. Trivedi; *Joint Secretaries,* S. K. Gangopadhyay, M. K. K. Nayar, S. S. Puri, J. M. Kitchlu; *Advisers,* Dr. Harbans Lal, Dr. K. S. Gill, D. P. Nayar, L. Kumar, M. Satyapal (*Addl.*).

GOVT. AGENCIES:

Anthropological Survey of India, Indian Museum, 27, J. L. Nehru Marg, Calcutta 700013.

Director, Dr. S. C. Sinha.

Archaeological Survey of India, New Delhi 110011.

Director-General of Archaeology, M. N. Deshpande; *Director, School of Archaeology,* K. Deva; *Directors, Exploration,* B. K. Thapar, Dr. N. R. Banerjee; *Director, Monuments,* Mrs. D. Mitra; *Director, Adm.,* A. K. Jain.

Botanical Survey of India, 14, Madan St., Calcutta 700013.

Director, Dr. K. Subramanyam.

Regional Offices:—Western Circle, Poona; Northern Circle, Dehra Dun; Central Circle, Allahabad; Southern Circle, Coimbatore; Eastern Circle, Shillong; Indian Botanical Garden, Howrah; Central National Herbarium, *Howrah ; Central Botanical Laboratory, Calcutta ; Industrial Section, Indian Museum, Calcutta* ; Arid Zone Circle, Jodhpur ; Andaman & Nicobar Circle, Port Blair.

Department of Explosives, Old High Court Bldgs., Nagpur 440001.

Chief Inspector of Explosives in India, M. P. Mukherji; *Dy. Chief Inspectors,* B. N. De, I. N. Murthy, V. A. Chandrasekharan (*East Circle, Calcutta*) ; *Senior Inspectors of Explosives, H. Office, Nagpur,* K. Sankaran ; *South Circle, Madras,* J. S. Phadnis ; *West Circle, Bombay,* P. K. Sengupta ; *North Circle, Agra,* B. R. Dave ; *Insp. of Explosives, Central Circle, Gwalior,* H. Mukherji.

Survey of India, Hqrs., Dehra Dun 248001.

Surveyor-General, Dr. Hari Narain ; Indian Photo-interpretation Institute, Dehra Dun ; Map Publication Directorate, Hathibarkala, Dehra Dun ; Northern, Circle, Dehra Dun ; Eastern Circle 13, Wood St., Calcutta 700016 ; Southern Circle 22, Richmond Rd., Bangalore 560025 ; Centre for Survey Training & Map Production, Hyderabad 560001 ; Pilot Map Production Plant & Survey Training Institute, Hyderabad 560001 ; Western Circle, Jaipur 302001 ; Central Circle, Jabalpur 482001 ; North-Western Circle, Chandigarh 160017 ; North-Eastern Circle, Shillong 793001 ; Deccan Circle, Hyderabad 500001 ; Directorate, Survey (Air), New Delhi 110011 ; Goedetic and Research Branch, Hqrs.

Zoological Survey of India, 34, Chittaranjan Ave., Calcutta 700012.

Director, Dr. A. P. Kapur ; *Deputy Directors,* Dr. B. S. Chuhan, Dr. S. Khera ; *W. Regional Stn.,* 1182/2, *Fergusson College Rd., "Shivajinagar" Pune* 411005 ; *Dy. Director,* Dr. B. K. Tikader.

India Meteorological Department, Hqrs., Lodi Rd., New Delhi 110003.

Director-General of Observatories, Dr. P. Koteswaram ; *Dy. Director-General of Observatories* (*Adm.*), Y. P. Rao ; *Director, Aviation Services,* S. Mazumdar ; *Director, Seismology,* H. M. Choudhary ; *Director, N. Hemisphere Analysis Centre,* D. Krishna Rao ; *Director, Telecommunications,* S. K. Das ; *Director, Hydrology,* P. S. Harihara Ayyar ; *Director, Satellite Meteorology,* Dr. P. S. Pant.

Dy. Directors-General of Observatories : Miss A. M. Mani, (*Instruments—New Delhi*), Dr. P. K. Das (*Forecasting—Meteorological Office, Ganeshkhind Rd., Pune* 411005), N. M. Philip (*Climatology & Geophysics — Meteorological Office, Ganeskhind Rd., Pune* 411005).

Directors : C. R. V. Raman (*Agricultural Meteorology, Meteorological Office, Ganeshkhind Rd., Pune* 411005), R. K. S. Saxena (*Regional Meteorological Centre, A-29, Kailash, New Delhi* 110048),N. C. Rai Sircar (*Regional Meteorological Centre, Alipore, Calcutta* 700027), S. K. Ghose (*Regional Meteorological Centre, Bombay* 400005), Dr. A. A. Rama Sastry (*Regional Meteorological Centre, Madras* 600006), K. S. Venkataraman (*Regional Meteorological Centre, Civil Aerodrome, Sonegaon, Nagpur* 440001), George Alexander (*Instruments, Meteorological Office, Ganeshkhind Rd., Pune* 411005), K. K. Ramamurthi (*Trg., Meteorological Office, Pune* 411005), Vacant (*Radio Meteorology, Meteorological Office, New Delhi* 110003), Vacant (*Indian Ocean & S. Hemisphere Analysis Centre, Meteorological Office, Pune* 411005).

Indian Institute of Tropical Meteorology, *Ramdurg House, Ganeshkhind Rd., Pune* 411005.

It specialises in studies of different aspects of tropical meteorology ; its trg. division imparts trg. in advanced studies and research techniques in meteorology.

Indian Institute of Astrophysics, *Kodaikanal.*

Director : Dr. M. K. Vainu Bappu.

Indian Institute of Geomagnetism, *Colaba, Bombay* 400005.

STATES ADMINISTRATIVE PERSONNEL

Corrected upto June 15, 1973.

ANDAMAN & NICOBAR ISLANDS, Port Blair.

Chief Commissioner, Har Mandar Singh, I.A.S. ; *Chief Secretary,* S. C. Vajpeyi, I.A.S. ; *Chief Development-cum-Rehabilitation Commr.,* G. H. Ansari, I.A.S. ; *Chief Conservator of Forests,* Bachan Singh, I.A.S. ; *Secretary (Finance),* Smt. Shailaja Chandra ; *Secretary (Judicial),* N. N. Chadha.

ANDHRA PRADESH, Hyderabad.

Governor: Khandubhai K. Desai.

Adviser, H. C. Sarui.

Secretariat

Chief Secretary, V. K. Rao, I.C.S. ; *Addl. Chief Secretary,* S. A. Quader, I.A.S. ; *Secretary, Revenue,* C. R. Krishna Rao Sahib, I.A.S. ; *Secretary, Home,* R. Vittal Rao, I.A.S .; *Secretary, Finance,* N. Rameshan, I.A.S. ; *Secretary, Law* J. Veera Swamy ; *Secretary, P.W.D.,* B. C. Gangopadhyaya, I.A.S. ; *Secretary, Planning, Co-op. & Housing,* B. P. R. Vithal, I.A.S. ; *Secretary, Education,* S. R. Ramamurthy, I.A.S. ; *Secretary, Health, Housing & Mun. Adm.,* B. R. K. Sastry, I.A.S. ; *Secretary, Ind. & Commerce,* Anil De, I.A.S. ; *Secretary, Food & Agriculture,* B. Pratap Reddy, I.A.S.

Heads of Departments

Director of Agriculture, K. V. Subrahmanyam, I.A.S. ; *Chief Conservator of Forests,* P. S. Rao ; *Director, Bureau of Economics & Statistics,* D. Rangaramanujam ; *Director of Public Instruction,* V. Ramachandran ; *Director of Industries,* Narendra Luther, I.A.S. ; *Inspector-General of Police,* B. N. Kalyana Rao, I.P.S. ; *Director of Medical & Health Services,* Dr. D. Raghavendra Rao ; *Commissioner, Hindu Religious & Charitable Endowments,* K. Vasudeva Rao, I.A.S. ; *Commissioner of Labour,* Khalid Ansari. I.A.S. ; *I.G. of Prisons,* C. B. Patil, I.P.S. ; *Registrar of Co-operative Societies,* K. M. Ahmed, I.A.S. ; *Director of Fisheries,* K. Chandriah, I.A.S. ; *Director of Animal Husbandry,* Dr. P. A. Shirazi ; *Director of Inf., Public Relations & Tourism,* P. Vamana Rao ; *Chairman, Public Service Commission,* Dr. D. Narasimha Reddy ; *Commissioner of Police,* Abdus Salam Khan, I.P.S. ; *Director of Handloom & Textiles,* L. Malakondayya, I.A.S.

High Court, Hyderabad 500001.

Chief Justice, Gopal Rao Ekbote ; *Judges :* Krishna Rao, S. Obul Reddi, A. Sambasiva Rao, C. Kondaiah, A. Kupuswami, K. Madhava Reddy, K. Ramachandra Rao, A. D. V. Reddy, M. Ramachandra Raju, P. Sriramulu, T. Lakshmaiah, A. V. Krishna Rao, K. A. Muktadar ; *Addl. Judges,* G. Venkatrama Sastry, P. Chennakesav

Reddy, V. Madhava Rao; *Advocate-General*, P. Ramachandra Reddy; *Registrar*, K. Venkateswara Rao.

South Central Railway, Himmatnagar, Secunderabad.

General Manager, P. N. Kaul; *Sr. Dy. General Manager*, K. Devanathan; *Chief Operating Superintendent*, K. S. Charyulu; *Chief Commercial Superintendent*, K. K, Pooviah; *Chief Engineer*, B. K. Batliwala; *Chief Engineer (Const.)*, P. V. Raghava Rao; *Chief Engineer (Survey & Const.)*, K. Ramani; *Financial Adviser & Chief Accounts Officer*, E. Varadachari; *Chief Mechanical Engineer*, H. R. Chopra; *Chief Personnel Officer*, T. V. Raju; *Chief Signal & Telecommunication Engineer*, A. Lakshminarayanan; *Chief Elec. Engineer*, K. Srinivasan; *Controller of Stores*, M. Sundaresan; *Chief Elect. Engineer (Electrification)*, A. Nandkeolyar; *Chief Secretary Officer*, L. J. Victor; *Chief Medical Officer*, Dr. K. Raghavendra Rao; *Chief Public Relations Officer*, C. S. Christian.

ARUNACHAL PRADESH, Shillong.

Secretariat

Chief Commissioner (Administrator), K. A. A. Raja; *Chief Secy.*, M. L. Kampani; *Financial Adviser & Ex-Officio Secy., Finance*, D. Sivaramakrishnan; *Secretaries:* R. K. Patir (*Planning & Dev.*), J. N. Gupta (*G.A. & Edn.*), W. S. Rynjah (*Supply & Transport*), J. M. Shrivastava (*Law & Judicial*).

Heads of Departments

Dy. Commissioners: P. S. Dave (*Along*), R. Yusuf Ali (*Bomdila*), T. C. Hazarika (*Ziro*), P. V. Jayakrishnan (*Khonsa*), T. Ringu (*Tezu*); *Directors:* S. L. Soni (*Edn.*), Dr. P. D. Gogoi (*Health Services*), T. P. Khaund (*Inf. & Public Relations*), B. Das Shastri (*Research*), R. K. Hranga (*Supply & Transport*), M. C. Joshi (*Panchayat & Comm. Dev.*), P. N. Nag (*Agri.*); *Chief Conservator of Forests*, J. C. Varma.

ASSAM, Dispur (Gauhati).

Governor: Vacant.

Ministers

Chief Minister in-charge of Home, Finance, Inf. and Public Relations, Political Affairs etc., Sarat Chandra Sinha.

Law, Relief & Rehabilation, Comm. Development, Parliamentary Affairs etc., Syed Ahmed Ali.

Revenue and Forests, Parmananda Gogoi.

Labour & Co-op., Gajen Tanti.

Industries, Mines & Minerals, Trade & Commerce, etc., Mohammad Idris.

PWD (R and B), Dr. Lutfur Rahman.

Agriculture & Fisheries, Upendra Das.

Social Welfare, Soil Conservation, etc., Uttam Chandra Brahma.

Education, Transport and Tourism, Harendranath Talukdar.

Health & Family Planning, Tribal Areas, Chatrasing Teron.

Livestock, Vet., Jails, etc., Joy Bhadra Hagjer.*

Minister Without Portfolios, Mahitosh Purkayashtha.

Ministers of State

Home, Health & Family Planning, Edn., Inf. & Public Relations, etc., Hiteswar Saikia.

Irrigation, Power, Ind., Trade & Commerce, Bishnu Prasad.

Social Welfare, Sericulture & Weaving, Smt. Swaran Probha.

Secretariat

Chief Secretary, D. Das, I.A.S.; *Commissioner of Agri. Prodn. & Rural Dev.*, B. S. Sarao, I.A.S.; *Secretary, Finance*, R. S. Paramasivam, I.A.S.; *Spl. Secretary, Appointment, etc.*, B. K. Bhuyan, I.A.S.; *Secretary, Panchayat & Com. Dev.*, T. S. Gill, I.A.S.; *Secretary, Law*, U. C. Tahbilder; *Secretary, Education*, A. K. Choudhury, I.A.S.; *Secretary, R. & R.*, R. V. Lyngdoh, I.A.S.; *Secretary, Mun. Admn.*, K. L. Ray, I.A.S.; *Secretary, Revenue & Forests:* A. K. Palit, I.A.S.; *Secretary, Co-op. Veterinary, Agri., etc.*, R. Natrajan, I.A.S.; *Secretary, Supply*, P. N. Rau, I.A.S.; *Secretary, Industries*, S. D. Phene, I.A.S.; *Secretary, Health* M. C. Narasimhan, I.A.S.; *Secretary, Transport*, H. P. Rajkhewa, I.A.S.; *Secretary, Planning & Dev.*, K. Saigal, I.A.S.; *Secretary, P.W.D. (R & B)*, P. Sarmah; *Secretary T.A. & W.B.C.*, M. C. Narasimham, I.A.S.; *Secretary, P.W.D. F.C. & I. & B.F.C.*, A. Dutta Choudhury; *Commissioner of Transport*, B. Barua, I.A.S.; *Commissioner of Relief & Rehab. (Gauhati)*, K. Bora, A.C.S.; *Commissioner of Excise, (Gauhati)*, R. N. Muhuri, I.A.S.; *Commissioner of Taxes, (Gauhati)*, C. D. Tripathi, I.A.S.; *Commissioner of Plains Divn., (Gauhati)*, G. Boruha, I.A.S.; *Commissioner of Labour*, B. Sarmah; *Commissioner of Hills Div.*, B. W. Roy, I.A.S.

Heads of Departments

Chairman, Assam State Elect. Board, S. K. Mallick, *Dir. of Agri., (Gauhati)*, Dr. K. C. Mahanta; *Registrar, Co-op. Soc.*, N. K. Choudhury, I.A.S.; *Dir. of Public Instruction*, K. Sarma; *Dir. of Tech. Edn.*, H. Baruah; *Dir. of Inf. & Public Relations (Gauhati)*, S. P. Barua; *Chief Conservator of Forests*, P. Boruah; *Inspector-General of Police*, Lala B. K. Dey, I.P.S.: *Inspector-General of Prisons*, R. K. Sarma; *Dir. of Health Services*, N. G. Banerji; *Dir. of Industries*, J. Das; *Dir. of Employment and Craftsmen Trg.*, K. K. Barua, A.C.S.; *Dir. of Economics & Stat.*, J. N. Sarmah; *Dir. of Social Welfare*, R. K. Sarma, A.C.S.; *Dir. of Geology & Mining*, S. K. Bhattacharyya; *Chief Engineer, PWD (R & B)*, H. Barua; *Dir. of Sericulture & Wvg.*, S. Choudhury; *Dir. of Housing (Gauhati)*, D. Goswami; *Dir. of Inland Water Transport (Gauhati)*, K. P. Gogoi; *Dir. of Fisheries (Gauhati)*, S. N. Bhuyan; *Dir. of State Lotteries, (Gauhati)*, H. K. Majumdar, I.A.S.; *Dir. of Soil Conservation*, P. Goswami; *Dir. of Small Savings, (Gauhati)*, B. Hazarika; *Dir. of Vet. & Animal Husb. (Gauhati)*, J. M. Bujarboruah.

High Court (for Assam, Nagaland, Meghalaya, Manipur & Tripura), Gauhati.

Chief Justice, P. K. Goswami; *Judges*, M. C. Pathak, D. M. Sen, B. N. Sarma, R. S. Bindra, Bahrul Islam; *Registrar*, B. Goswami; *Advocates General*, J. C. Medhi (*Assam*), S. K. Ghose (*Nagaland*), N. M. Lahiri (*Meghalaya*), N. Ibotombi Singh (*Manipur*).

North-East Frontier Railway, Maligaon, Gauhati 781011.

General Manager, N. N. Tandon; *Senior Deputy General Manager and Chief Vigilance Officer*, A. K. Sarkar; *Deputy General Manager (G)*, A. K. Chatterjee; *Chief Personnel Officer*, H. N. Kidwai; *Chief Operating Supdt.*, Jagdish Lal; *Chief Engineer*, A. C. Mathias; *Chief Mechanical Engineer*, L. R. Gosain; *Financial Adviser and Chief Accounts Officer*, K. Subramanian; *Chief Electrical Engineer*, N. Sankaranarayan; *Chief Signal & Tele-Comm.*

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* Dead.

Engineer, D. P. Purang; *Chief Commercial Supdt.*, S. C. Chatterjee; *Chief Security Officer*, A. C. Dutta; *Chief Medical Officer*, Dr. S. K. Bose.

BIHAR, Patna.

Governor: R. D. Bhandare.

Lok Ayukta: S. V. Sohonie.

Bihar Ministry

Chief Minister in charge of Home, Health & Family Planning, etc., Abdul Ghafoor; *Finance, Planning, etc.*, Daroga Prasad Rai; *Labour, Tourism, etc.*, Mrs. Ramdulari Sinha; *Industries, etc.*, Chandra Shekhar Singh; *Irrigation & Power*, Dr. Jagannath Mishra; *Revenue*, Lahtan Choudhary; *Comm. Dev., etc.*, Narsingh Baitha; *Co-op. & Transport*, Shatrughan Sharan Singh; *Housing, P. Health, etc.*, Dr. Ram Raj Singh; *Agriculture, etc.*, Ram Jaipal Singh Yadav; *Edn.*, Vidyakar Kavi; *Forests & Jail*, Sidui Hembrum; *Fisheries, etc.*, Karamchand Bhagat; *Food Supply, Commerce*, Mungeri Lal, *Parl. Affairs, etc.*, Jainarayan Mehta.

Secretariat

Chief Secretary & Vigilance Commr., P. K. Menon, I.A.S.; *Development Commr.*, H. N. Thakur, I.A.S.; *Health Commr.*, N. Nagamani, I.A.S.; *Indus. Dev. Commr.*, K. K. Shrivastava, I.A.S.; *Civil Defence Commr.*, B. N. Basu, I.A.S.; *Mines Commr.*, Karam Singh, I.A.S.; *Chief Adm., River Valley Projects*, Singheshwar Sahay, I.A.S.; *Relief & Rehab. Commr.*, S. K. Ghosh, I.A.S.; *Agri. Production Commr.*, R. C. Sinha, I.A.S.; *Education Commr.*, Ramanand Singh, I.A.S.; *Financial Commr.*, Anwar Karim, I.A.S.; *Commissioner for Deptl. Enquiries*, R. Nath, I.A.S.; *Adm. Reforms Commr.*, N. D. J. Rao, I.A.S.; *Food Commr.*, S. D. Prasad, I.A.S.; *Resident Commr., New Delhi*, P. C. Bhagat, I.A.S.; *Spl. Secretary, Finance*, Shankar Saran, I.A.S.; *Spl. Secretary, Cabinet Sectt.* U. N. Rai, I.A.S.; *Secretary, Labour & Employment*, I. Prasad, I.A.S.; *Secretary, Land Reforms & Excise*, Shrinivas Rao Adige, I.A.S.; *Secretary, Co-operation*, R. R. Prasad, I.A.S.; *Secretary, Agri. & Animal Husb.*, R. C. Arora, I.A.S.; *Secretary, Industries*, B. L. Das, I.A.S.; *Secretary, Urban Dev. & Housing*, K. M. Zuberi, I.A.S.; *Secretary, Welfare & Forests*, C. B. Prasad, I.A.S.; *Secretary, Comm. Dev.* R. C. Prasad, I.A.S.; *Secretary, Law*, D. P. Sinha; *Secretary, Home*, P. S. Kohli, I.A.S.; *Excise Commr.*, S. P. Sukla, I.A.S.; *Secretary, Irrigation & Elec.*, Kamta Prasad Singh, I.A.S.; *Registrar, Co-op. Societies*, Ballav Saran, I.A.S.; *Spl. Secretary, Education*, V. V. Nathan, I.A.S.; *Spl. Secretary-cum-Dy. Chief Adm., River Valley Projects*, C. S. Kumar, I.A.S.; *Labour Commr.*, G. D. Mandal, I.A.S.; *Dir., Animal Husb.*, Y. Prasad; *Dir. of Indus.*, Dr. Kumar Suresh Singh, I.A.S.; *State Transport Commr.*, B. P. N. Sahi, I.P.S.; *Special I. G. of Police*, T. Nath, I.P.; *I. G. of Police*, S. Q. Rizvi, I.P.

High Court, Patna.

Chief Justice, Nand Lall Untwalia; *Judges:* Shyamnandan Prasad Singh, Girija Nandan Prasad, Saiyid Anwar Ahmad, Krishna Ballabh Narayan Singh, Shambhu Prasad Singh, Bhubneshwar Dhari Singh, Achalendra Nath Mukharji, Chandrika Prasad Sinha, Syed Sarwar Ali, Madan Mohan Prasad, Jitendra Narain, Siveshwar Prasad Sinha; *Registrar*, Chandra Narain Tiwari.

DELHI, Delhi.

Lt. Governor: Baleshwar Prasad.

Chief Executive Councillor, Radha Raman; *Financial Commr.*, Mahabir Singh; *Chief Secretary*, T. N. Chaturvedi, I.A.S.; *Development Commr.*, M. D. Tyagi; *Judicial Secretary*, Rajni Kant; *Finance Secertary*, P. P. Chauhan; *Deputy Commr.*, V. K. Kapur, I.A.S.; *Inspector-General of Police*, P. R. Rajgopal; *Director of Education*, D. S. Misra; *Director of Inf. & Publicity*, Prem Sundar; *Director of Industries*, K. K. Mathur; *Labour Commr.*, S. C. Chhabra; *Director of Trg. & Emp.*, P. S. Murthy; *Sales Tax Commr.*, A. J. Kundan; *Dt. & Sessions Judge*, E. S. Gill.

High Court, New Delhi.

Chief Justice, S. N. Andley; *Judges*, T. V. R. Tatachari, Jagjit Singh, S. N. Shankar, V. S. Deshpande, P. N. Khanna, S. Rangarajan, Prakash Narain, P. S. Safeer, M. R. A. Ansari, V. D. Misra, B. C. Misra, Rajindar Sachar, Prithvi Raj, Dalip K. Kapur, T. P. S. Chawla, A. B. Rohtagi, R. N. Aggarwal, H. L. Anand; *Registrar*, Mohinder Singh Joshi.

Northern Railway, Baroda House, New Delhi.

General Manager, C. S. Parameswaran; *Sr. Deputy General Manager*, B. R. Kinra; *Chief Operating Superintendent*, A. L. Gupta; *Chief Commercial Superintendent*, H. P. Verma; *Chief Engineer*, G. H. Keswani; *Chief Engineer, (Construction)*, D. S. Tomar; *F.A. & Chief Accounts Officer*, K. P. Taimni; *Chief Mechanical Engineer*, P. N. Khanna; *Chief Signal & Telecommunication Engineer*, Sirish Chandra; *Chief Signal & Telecommunication Engineer (Construction)*, R. K. Dandekar; *Chief Personnel Officer*, A. B. Lall; *Chief Electrical Engineer*, V. Seetharaman; *Chief Security Officer*, B. C Mishra; *Chief Medical Officer*, Dr. Amar Chand; *Chief Public Relations Officer*, S. S. Mahant.

GOA, Panaji.

Lt. Governor: (*Concurrently Administrator of Dadra and Nagar Haveli*), S. K. Banerjee.

Ministers

Chief Minister in charge of G.A., Home, Finance, Industries, Health, Public Works, Inf. & Tourism etc., Dayanand B. Bandodkar.

Planning, Agriculture & Irrigation etc., A. K. S. Usgaonkar.

Law, Judiciary, Civil Supplies, Labour, etc., Pratap Singh Rane.

Minister of State in charge of Edn., Public Health, Small Savings etc., Mrs. Shashikala Kakodkar.

Secretariat

Chief Secretary, T Kipgen, I.A.S.; *Judicial Commr.*, Tito Menezes; *Dev. Commr. & Secretary, Planning & Dev.*, S. M. Goel; *Secretary, Industries and Labour*, Dr. J. C. Almeida; *Secretary, Law and Judiciary*, B. M. Masurkar; *Finance Secretary*, Puran Singh, *Revenue Secretary*, P. S. Bhatnagar, I.A.S.

Principal Officials

Director of Industries & Mines, P. Rai, I.A.S.; *Director, Information and Tourism*, K. H. Katekar; *Collector of Goa*, S. R. Arya; *Collector of Daman*, Jagdish Sagar, I.A.S.; *Civil Administrator, Diu*, E. N. Rodriques.

GUJARAT, Gandhinagar.

Governor: K. K. Viswanathan.

The Gujarat Ministry has resigned and at the time of going to press there is no new Ministry.

Secretariat

Chief Secretary, M. D. Rajpal; *Home Secretary*, N. D. Buch; *Secretary, Finance*, H. T. Sadhwani; *Secretary, Revenue*, K. N. Zuthshi; *Secretary, Education*, S. M. Dudani; *Secretary, Agri. & Forests*, K. G. Badlani;

Secretary, Panchayats, & Health, R. B. Shukla ; *Secretary, Legal,* K. M. Satwani ; *Secretary, Public Works,* M. G. Shah ; *Secretary, Civil Supplies,* R. V. Chandramouli.

Principal Officials

Director of Agriculture, Dr. G. A. Patel ; *Director of Public Health & Medical Services,* Dr. V. H. Thakor ; *Director of Technical Edn.,* P. S. Kalwachwala ; *Commissioner of Industries,* Mrs. Snehlata Singla, I.A.S. ; *Commissioner of Fisheries,* K. S. Bhullar, I.A.S. ; *Director of Inf., Tourism, & Examiner of Books & Periodicals,* C. U. Shukla ; *Director, Bureau of Economics & Statistics,* P. B. Buch ; *Director of Drugs Control,* S. C. Shah ; *Director of Animal Husbandry,* N. H. Buch ; *Commissioner of Labour,* S. J. Shah ; *Commissioner of Sales Tax,* K. V. Harihardas, I.A.S. ; *Inspector-General of Police,* P. M. Pant, I.P. ; *Commissioner of Police* (Ahmedabad), N. H. Sethna ; *Director of Transport,* H. S. Chhaya ; *Director of Edn.,* P. R. Chauhan ; *Inspector General of Prisons,* V. R. Patel ; *Director of Prohibition,* P. B. Joshi ; *Director of Social Welfare,* C. P. Patel ; *Director of Ports,* P. J. Dave ; *Director of Cottage Industries, Registrar of Co-op. Societies & Registrar of Money-Lenders,* G. D. Amin ; *Chief Conservator of Forests,* R. D. Joshi ; *Vigilance Commissioner,* Y. D. Desai.

High Court, Navrangpura, Ahmedabad-380009.

Chief Justice, P. N. Bhagwati ; *Judges,* B. J. Divan, J. B. Mehta, M. U. Shah, A. D. Desai, J. M. Sheth, D. A. Desai, S. N. Patel, S. H. Sheth, D. P. Desai ; *Addl. Judges,* M. P. Thakkar, T. U. Mehta, P. D. Desai, B. K. Mehta, A. A. Dave, C. V. Rane, A. N. Surti ; *Registrar,* M. C. Trivedi.

HARYANA, Chandigarh.

Chief Commissioner, Chandigarh, B. P. Bagchi.

Governor: B. N. Chakravarty.

Ministers

Chief Minister in charge of G.A., Planning, Irrigation & Power, Bansi Lal.

Home, Jails, Pub. Relations, Wakf, Sports, Tourism, Labour & Employment, etc., K. L. Poswal.

Agri., Food & Supplies, Forests, Co-op., etc., Bhajan Lal.

Social Welfare, Excise & Taxation, etc., Shyam Chand.

Finance, Housing, etc., Ram Saran Chand Mital.

Edn., Languages, Archaeology, Maru Singh Malik.

Ind., Ind. Trg., Health, etc., Harpal Singh.

P.W.D., Tech. Edn., Revenue & Rehabilitation, etc., Chiranji Lal.

Transport, Dairy Development, Animal Husbandry, Fisheries, etc., Maha Singh.

Ministers of State

P.W.D., Revenue & Rehabilitation, Ind. Trg., etc., Smt. Chandravati ; *Edn., Excise & Taxation, Transport,* Smt. Parasanni Devi ; *Local Self-Govt., Co-op., Tech. Edn.,* Gordhan Das ; *Planning, Irrigation & Power, Food & Civil Supplies,* Harmohinder Singh Chatha.

Secretariat

Chief Secretary, Saroop Krishan, I.C.S. ; *Secretary, Planning, Finance, Excise & Taxation, Home, Adm. of Justice, Jails, Vigilance, etc.,* N. N. Kashyap, I.C.S. ; *Secretary, P.W.D. (Irri. & Power) & Transport,* P. P. Caprihan ; *Secretary, Public Health, Housing, Town & Country Planning, etc.,* L. C. Gupta ; *Secretary, Food & Supplies, Revenue, Rehabilitation, etc.,* D. D. Sharma ; *Secretary, Edn., Languages & Health,* P. L. Chhabra ; *Secretary, Social Welfare, Labour & Employment, etc.,* S. N. Bhanot ; *Secretary, Tourism, Cult. Affairs, Civil Aviation, Ind., etc.,* S. K. Mishra ; *Secretary, Ani. Husbandry, Fisheries, Forests, Ind. Trg. & Tech. Edn.,* Kulwant Singh ; *Secretary, Co-op., Agri. & Dairy Dev.,* G. L. Bailur.

Principal Officials

Director of Industries, Trilochan Singh ; *Director, Food & Supplies,* M. C. Gupta ; *Director, Public Relations,* R. S. Varma ; *State Transport Controller,* K. K. Sharma ; *Inspector General of Police,* J. C. Vachher ; *Director of Health Services,* Dr. P. R. Sondhi ; *Director, Public Instruction,* G. V. Gupta ; *Chairman, Public Service Commission,* M. L. Batra ; *Director of Agriculture,* R. S. Verma.

High Court (*Given Under Punjab*).

HIMACHAL PRADESH, Simla.

Governor: S. Chakravarti.

Ministers

Chief Minister in charge of Gen. Adm., Home & Personnel, Planning, Finance, Pub. Relations, Horticulture, Univ. Edn. and Tech. Edn., Dr. Y. S. Parmar.

Public Works, Transport, Tourism, Law, etc., Ram Lal Chauhan.

Revenue, Edn., Rehabilitation, Civil Supplies, Cooperation, Panchayats, Des Raj Mahajan.

Forests, Health & Family Planning, Housing, etc., Lal Chand Prarthi.

Agri., Animal Husbandry, Fisheries, Industries, Com. Dev., Minor Irrigation, Dr. Salig Ram.

Ministers of State

Local Self-Govt., Comm. Dev. & Law, Hardyal ; *Welfare, Prisons, Forests, etc.,* Mansa Ram ; *Health & Family Planning, Co-op.,* Smt. Sarla Sharma.

Parliamentary Secretaries

Chief Parliamentary Secretary, Babu Ram Mandial (*Parl. Affairs, Planning & Transport*) ; *Parliamentary Secretary,* Kishori Lal Tadu (*Parl. Affairs, Pub. Relations & Industries*).

Secretariat

Chief Secretary in charge of Home, Personnel, Planning, Pub. Relations, Vigilance, Border Affairs, etc., K. N. Channa ; *Secretary, Revenue, Relief & Rehabilitation, Election, etc.,* I. Hmingliana Tochhawng ; *Secretary, Agri., Horticulture, Animal Hub., Fisheries, Comm. Dev., Civil Supplies, etc.,* K. C. Pandeya ; *Secretary, Industries, Labour, Forests, Housing, Excise & Taxation, etc.,* P. K. Mattoo ; *Secretary, Public Works, Transport, Tourism, Health & Family Planning,* H. S. Dubey ; *Secretary, Finance, Economic Affairs, etc.,* M. M. S. Srivastava ; *Secretary, Planning, G.A.D. & also Spl. Secy. to Cabinet,* B. C. Negi ; *Secretary, Law,* B. D. Sharma ; *Secretary, Edn., Welfare, etc.,* Prakash Chand.

Principal Officials

Registrar, Co-op. Societies, B. D. Thapar ; *Director, Civil Supplies,* Shamsher Singh ; *Director of Health Services,* Dr. K. Swarup ; *Chief Conservator of Forests,* R. C. Kaushik ; *Director of Edn.,* P. C. Bansal ; *Director of Animal Husb.,* G. C. Negi ; *Director of Agriculture,* Dr. B. S. Jogi ; *Director of Horticulture,* Harbans Singh ; *Inspector General of Police,* B. S. Yadav, *Director of Economics and Statistics,* R. N. Pandey ; *Director of Public Relations,* H. K. Mittoo ; *Director of Fisheries,* R. P. Asotra; *Commissioner, Transport & Tourism,* M. S. Mukerjee ; *Director of Welfare & Inspector-General of Prisons,* P. C. Sharma ; *Director of Industries,* S. M. Kanwar ; *Director of Vigilance,* Mrs. Anjula Karki.

High Court, Simla.

Chief Justice, R. S. Pathak; *Judges*, D. B. Lal, Chet Ram Thakur; *Registrar*, Kedarishwar.

JAMMU & KASHMIR, Srinagar.

Governor : L. K. Jha.

Ministers

Chief Minister in charge of Gen. Adm., Law & Order, Police, Planning, Information & Publicity, Trade Agencies & Parl. Affairs, etc., Syed Mir Qasim.

Finance, Excise, Taxation, Legislation, Law, Judiciary, Industries, Commerce, etc., Girdharilal Dogra.

Agricultural Production, Forests, Fisheries, Evacuee Property, Trilochan Dutta.

Roads, Buildings, Irrigation, Flood Control, Urban Development, Housing, Town Planning, Public Health Engg., etc., Mufti Mohammed Sayed.

Food Supplies, Transport, Labour, etc., Ghulam Rasool Kar.

Health, Jails, Edn., Tourism, etc., Abdul Gani Lone.

Ministers of State

Parl. Affairs, Labour, etc., Mir Ghulam Mohammed; *Inf., Ladakh Affairs, Tourism*, Randhir Singh; *Industries & Commerce*, G. M. Mir Lasjan; *Agriculture*, Abdul Aziz Zarger; *Co-op.*, Sonam Wangyal; *Health*, Hans Raj Dogra; Makhan Lal Fotedar (*Portfolios not known*).

Deputy Ministers

Plng. & Edn., Abdul Qayum; *Excise & Taxation*, Kachu Mohammed Ali; *Animal Husbandry & Sheep Breeding*, Mian Bashir Ahmed; *Local Self-Govt.*, Parmanand; *Transport*, Dharam Pal.

Secretariat

Chief Secretary, Vacant; *Secretary-General*, Sheikh Ghulam Rasool; *Secretary, Planning*, Noor Mohammad; *Secretary, Home*, G. M. Mir; *Secretary, Education*, Ghulam Mohi-ud-Din; *Secreatry, Works & Power*, Mir Nassar Ullah; *Secretary, Food, Supplies & Transport*, H. R. Sharma; *Secretary, Agriculture*, R. C. Bhargava; *Secretary, Inf., Publicity & Tourism*, O. N. Dhar; *Secretary, Industries*, G. R. Renzu; *Secretary, Finance*, J. N. Kaul; *Secretary, Health*, Sardar Sohan Singh; *Secretary, Revenue*, S. A. S. Qadiri.

Heads of Departments

Divisional Commissioner, Kashmir, Sheikh Ghulam Ahmed; *Divisional Commissioner, Jammu*, Chaudhury Bharat Bhushan; *Inspector-General of Police*, Surinder Nath, I.P.; *Director of Inf.*, P. N. Bakaya; *Director of Health Services*, Col. S. Kaul; *Director of Tourism*, D. N. Kachroo; *Director of Geology & Mining*, S. C. Chakravarty; *Director of Animal Husbandry*, D. R. Marwaha; *Director of Agriculture*, O. P. Khajuria; *Director of Fisheries*, A. R. Wani; *Financial Commissioner*, S. A. S. Qadri; *Transport Controller*, S. M. S. Farooqi; *Labour Commissioner*, B. Mangat Ram; *Chief Conservatot of Forests*, Ghulam Naqashband; *Controller of Tawaza*, S. K. Kak; *Registrar, Co-op. Societies*, Din Nath Kotwal.

High Court, Srinagar 190001.

Chief Justice, Syed Murtaza Fazl Ali; *Judges*, Jaswant Singh, Mian Jalal-ud-din, Mufti Baha-ud-din Farooqi Syed Wari-ud-Din (*ad hoc*); *Registrar*, G. A. Tak.

KERALA, Trivandrum.

Governor : N. N. Wanchoo.

Ministers

Chief Minister, G.A., Integration, Planning, Inter-State River Waters, Jails & Tourism, C. Achutha Menon.

Home (Police, Election and Anti-Corruption), Adm. of Civil & Criminal Justice, Information & Publicity, etc., K. Karunakaran.

Forests, Finance, Lotteries, etc. Dr. K. G. Adiyodi.

Panchayats, Town Planning, Fisheries, Public Health Engineering, Ports, etc., K. Avukaderkutty Naha.

Land Revenue & Excise, Baby John.

Health & Co-operation, N. K. Balakrishnan.

Public Works, Irrigation, Flood Control and Anti-Sea Erosion, T. K. Divakaran.

Harijan Welfare, Community Development, Devaswoms, etc., Vella Eacharan.

Food, Civil Supplies, Rehabilitation etc., Paul P. Mani.

Transport and Communications, Electricity, Housing, M. N. Govindan Nair.

Education, C. Ahmed Kutty.

Agriculture, Animal Husb. and Dairy Dev., Labour, Employment and Training, etc., Vakkom Purushothaman.

Industries and Commerce, Cement, Iron and Steel, Handloom and Coir, etc., T. V. Thomas.

Secretariat

Chief Secretary, K. P. K. Menon, I.A.S.; *Addl. Chief Secretary (Planning & Economic Affairs)*, George Thomas, I.A.S.; *Spl. Secretary, Public Deptt.*, G. Bhaskaran Nair, I.A.S.; *Secretary, Finance*, P. Velayudhan Nair, I.A.S.; *Commissioner for Agri. Production*, K. C. Sankaranarayanan, I.A.S.; *Secretary, Agriculture*, P. G. Muralidharan, I.A.S.; *Secretary, Dev. Deptt. and Dev. Commissioner*, P. K. Abdullah, I.A.S.; *Secretary, Health*, K. P. Viswanathan Nair; *Secretary, Industries*, Vacant; *Secretary, Home*, S. Narayanaswamy, I.A.S.; *Secretary, Revenue*, A. K. K. Nambiar, I.A.S.; *Secretary, Taxes*, V. Venkitanarayanan, I.A.S.; *Secretary, Law*, M. Sekharam; *Secretary, Education*, P. K. Umashankar, I.A.S.; *Secretary, Public Works*, R. Gopalaswamy, I.A.S.; *Secretary, Public Enterprises*, N. Gopalakrishnan Nair, I.A.S.; *Secretary, Water & Power*, T. Madhava Menon, I.A.S.; *Secretary, Labour*, V. Mahabal Rao, I.A.S.; *Secretary, Local Admn. and Social Welfare*, Zachariah Mathew, I.A.S.

Heads of Departments

Chief Engineer, General & Projects, K. Bharathan; *Chief Engineer, National Highways*, P. V. John; *Chief Engineer, PHED*, V. P. Narayanan Nair; *Chief Engineer, Irrigation*, M. Mangalabhami; *Chief Engineer, P.W.D. & B.R.*, Smt. P. K. Thresia; *Chief Conservator of Forests*, P. T. Devassy; *Director of Agriculture*, N. Kaleeswaran, I.A.S.; *Director of Animal Husbandry*, Dr. G. Neelakanta Pillai; *Director of Archaeology*, N. C. Unnithan; *Director of Indigenous Medicine*, Dr. N. Sreedharan; *Director, Bureau of Economics and Statistics*, Dr. N. Gopalakrishnan Nair; *Commr. of Labour*, S. Gopalan; *Commr., State Transport*, Dr. C. R. Krishna Moorthy; *Dir. of Collegiate Edn.*, Smt. Moly Thomas; *Dir. of Dairy Dev.*, Philopose Thomas; *Dir. of Emp. & Trg.*, Smt. L. Omanakunjamma; *Dir. of Fisheries*, A. I. George; *Dir. of Lotteries*, K. P. Thevan; *Dir. of Mining & Geology*, C. V. Poulose; *Dir. of Harijan Welfare*, P. Bharathan; *Dir. of Industries & Commerce*, P. D Kuruvila; *Dir. of Municipalities*, P. Lakshmanan; *Dir., Vigilance Investigation*, V. Subramaniam; *Dir. of Water Transport*, E. Shahul Hamied; *Dir. of Pub Relations*, T. K. Purushothaman; *Dir. of Pub. Instruction*, A. K. Narayana Nambiyar; *Registrar of Co-op. Societies*, T. R. Sankara Pillai; *Inspector-General of Police*, M. Singaravelu; *Inspector-General of Prisons*, P. Gopala Menon.

High Court, Ernakulam, Cochin 682011.

Chief Justice, P. Govindan Nair ; *Judges,* V. P. Gopalan Nambiyar, T. S. Krishnamoorthy Iyer, K. Sadasivan, M. U. Isaac, V. Balakrishnan Eradi, P. Narayana Pillai, P. Subramonian Poti, E. K. Moidu, N. D. P. Namboodiripad, G. Viswanatha Iyer, V. Khalid, K. Bhaskaran ; *Registrar,* T. V. Raman ; *Advocate-General,* M. M. Abdul Khadir.

MADHYA PRADESH, Bhopal.

Governor : Satya Narayan Sinha.

Ministers

Chief Minister in charge of Gen. Adm., Home, Tourism, Inf. & Pub., Housing, etc. etc., P. C. Sethi.

Finance, Forests & Regn., S. S. N. Mushran.

Agri., Co-operation, Food & Civil Supplies, etc., V. R. Uike.

Ind., Commerce & Natural Resources, P. M. Patel.

Education, Arjun Singh.

Revenue Records, Land Reforms, etc., K. L. Shukla.

Jail, Law & Leg. Affairs, K. P. Singh.

Labour, Harijan Welfare, etc., Mahant Bisuadas.

Planning, etc., C. P. Tiwari.

Pub. Health, Engg., Mathura Prasad Dube.

P.W.D. (B. & R.), Tejlal Tembhre.

Ministers of State

Irrigation & Electricity, A. C. Chhajed ; *Jail, Law & Leg. Affairs,* Dr. Tumanlal ; *Health & Family Planning,* Kum. Vimla Verma ; *Revenue, Co-operation, etc.,* Zumaklal Bhedia ; *Home,* Ran Vijay Pratap Singh ; *Forests,* Umrao Singh ; *Panchayats, Social Welfare, etc.,* Baburam Chaturvedi ; *Local Self Govt. (Urban),* Rajaram Singh.

Deputy Ministers

P.W.D., Mann Mohan Das ; *Finance,* Chandra Prabhash Shekhar ; *Panchayats, Social Welfare, etc.,* Kum. Kamla Kumari.

Secretariat

Chief Secretary, R. P. Noronha ; *Addl. Chief Secretary,* M. S. Choudhary ; *Secretary, Finance,* K. L. Pasricha ; *Secretary, Home,* S. S. Gill ; *Secretary, Forests,* M. M. Khar ; *Secretary, Education,* R. N. Chopra ; *Secretary, Irrigation & Electricity,* K. C. S. Acharya ; *Secretary, L.G. (U), Revenue,* M. S. Singh Deo ; *Secretary, G.A.D.,* M. H. Rao ; *Secretary, PHE.,* Baldeo Singh ; *Spl. Secretary, T.W.D.,* D. G. Bhave ; *Spl. Secy., Home,* B. M. Date ; *Spl. Secy., C. & I, NRD, Labour,* R. P. Kapoor ; *Spl. Secy., Forests,* U. S. Bajpai ; *Spl. Secy, Agri,* S. K. Sharma ; *Spl. Secy., G.A.D.,* B. J. Heerjee ; *Spl. Secy, Finance,* S. K. Sarkar ; *Spl. Secs., Education,* S. S. Mukerji, P. N. Abbi.

Heads of Departments

Registrar, Co-op. Societies, J. N. Kaul ; *Director, Tribal Welfare,* A. K. Banerjee ; *Director, Industries,* Manish Bahl ; *Director, Panchayat & Social Welfare,* S. N. Rao ; *General Manager, M.P.S.R.T.C.,* N. S. Sethi ; *Director, Agriculture,* O. P. Mehra ; *Director, State Lotteries,* S. P. Singh ; *Commr. of Departmental Enquiries,* M. Y. Godbole; *Chief Electoral Officer,* L. B. Sarje ; *Director, Public Instruction,* Nirmala Buch ; *Director, Food & Civil Supplies,* R. C. Dube ; *Financial Commr. and Controller of State Income and Expenditure,* R. P. Naik ; *Director, Local Bodies,* V. P. Seth ; *Director, Inf. and Publicity,* H. P. Tiwari; *Director, Statistics & Economics,* K. B. L. Bhargava.

High Court, Jabalpur.

P. K. Tare (*Chief Justice*), *Judges :* Shivdayal, S. P. Bhargava, R. Bhav, J. A. P. Sen, G. P. Singh, S. M. N. Raina, K. K. Dube, R. K. Tanka, J. S. Verma ; *Indore Bench :* G. L. Oza, S. R. Vyas ; *Gwalior Bench :* N. C. Dwivedi.

MAHARASHTRA, Bombay.

Governor : Nawab Ali Yavar Jung Bahadur.

Ministers

Chief Minister in Charge of G.A., Home, Planning, Tourism, Information, Publicity, Protocol and Rural Dev. etc., V. P. Naik.

Irrigation and Power (Hydro-Electric), Vasantrao B. Patil.

Agriculture and State Road Transport Corpn., S. B. Chavan.

Finance, Small Savings and Forests, M. D. Chaudhari.

Industries, Labour, Electricity, Printing Presses & Leg. Affairs, N. M. Tidke.

Public Health, Urban Development & Waqfs, Dr. Rafiq Zakaria.

Co-operation & Housing, Y. J. Mohite.

Revenue, Rehab. Khar Lands, Food, Civil Supplies & Indian Games, H. G. Vartak.

Buildings, Communications, Law, Judiciary & Fisheries, A. R. Antulay.

Social Welfare & Cult. Affairs, Mrs. Pratibha Patil.

Education & Sports (except Indian Games), A. N. Namjoshi.

Prohibition, Dr. M. B. Popat.

Ministers of State

Industries, Electricity, Forests & Tourism, K. P. Patil ; *Finance, Rural Dev. & Labour,* S. B. Patil ; *Revenue & Co-op.,* S. A. Solanke ; *Home, Publicity, Rehabilitation, Sports & Protocol,* S. G. Pawar ; *Agriculture, Irrigation etc.,* R. J. Deotale ; *Education & Planning,* Smt. Prabha Rau ; *Urban Dev. Public Health, Bldgs. & Communications,* G. S. Sarnayak ; *Housing, Social Welfare & Fisheries,* D. T. Rupavate.

Deputy Minister

Forests & Social Welfare, R. M. Patel.

Lok Ayukta of Maharashtra, S. P. Kotwal (*Office :* Bungalow No. A-4, Madame Cama Rd., Bombay 400001.)

Secretariat Sachivalaya, Bombay 400032.

Chief Secretary, Gen. Adm., L. M. Nadkarni, I.C.S. ; *Secretary,* G. H. Lalwani ; *Secretary, Law & Judiciary,* B. P. Dalal ; *Addl. Secretaries,* S. B. Palekar, R. D. Nigudkar ; *Secretary, Food & Civil Supplies,* Dr. A. S. Naik, I.C.S. ; *Secretary, Rural Development,* R. C. Joshi, I.C.S. ; *Secretary, Education,* Dr. A. U. Shaikh ; *Secretary, Social Welfare, Cult. Affairs, Tourism, etc.,* R. G. Salvi ; *Secretary, Bldgs. & Communications,* M. V. Rajwade ; *Secretary, Urban Development, Public Health & Housing,* S. E. Sukthankar ; *Mg. Dir., CIDCO and Secretary, Gen. Adm.,* Vacant ; *Secretary, Industries & Labour,* M. N. Desai ; *Secretary, Irrigation & Power,* B. A. Kulkarni ; *Secretary, Planning & Addl. Dev. Commissioner,* L. N. Bongirwar ; *Secretaries, Agriculture & Co-operation,* L. S. Lulla, H. Nanjundiah ; *Secretaries, Revenue & Forests,* V. Subramanian, S. R. Ramakrishna ; *Secretaries, Home,* J. C. Agarwal, V. Prabhakar ; *Secretary, Finance,* P. D. Kasbekar ; *Addl. Secretary, Finance,* S. Ramachandra Rao ; *Director of Mun. Adm. & Secretary, Urban Dev., Pub. Health & Housing,* J. B. D'Souza.

Heads of Departments

Accommodation Controller, Jagdish Joshi; *Director of Edn. (Pune)*, C. G. Sahasrabuddhe (*Offg.*); *Director of Public Health (Pune)*, Dr. V. N. Rao; *Director of Agriculture (Pune)*, Dr. K. G. Joshi; *Director of Fisheries (Bombay)*, A. G. Kalawar; *Director of Animal Husb. (Pune)*, D. D. Ranadive; *Settlement Commissioner & Director of Land Records & Inspector-General of Registration (Pune)*, R. A. Zubairy, I.A.S.; *Registrar of Firms (Bombay)*, S. B. Shinde; *Industries Commissioner (Bombay)*, M. Subramanian; *Chief Conservator of Forests (Pune)*, S. S. Buit; *Director of Ayurved (Bombay)*, Vaidya R. D. Jaiswal; *Charity Commissioner*, M. D. Kambli; *Director of Technical Edn.*, M. V. Deshpande; *Inspector-General of Prisons, (Pune)*, K. Shivaram Krishna; *Director of Prohibitions & Excise (Bombay)*, A. D. Samant; *Commissioner of Food & Drugs Adm. (Bombay)*, M. K. Rangnekar; *Commr. of Labour & Dir. of Employment (Commerce Centre, 6th & 7th floors, Tardeo, Bombay* 400034), B. V. Laud; *Director of Health Services, (Govt. Dental Coll. & Hospital Bldg., St. George's Hospital Compound, Bombay* 400001), Dr. F. J. Mendonca; *Director of Medical Edn. & Research*, Dr. H. I. Jhala; *Director, Haffkine Institute, Parel, Bombay* 400012, Dr. N. K. Dutta; *Dairy Development Commissioner*, S. P. Mondkar; *Director of Sports (Pune)*, B. G. Wakharkar; *Chairman, Maharashtra State Board of Secondary Education (Shivajinagar, Pune* 411010), V. A. Apte (*Offg.*) *: Commissioner of Sales Tax (Vikrikar, 7th floor, Mazgaon, Bombay* 400010), K. A. Gaffoor; *Administrator, Maharashtra Housing Board (Kala Nagar, Bandra, Bombay* 400051), Y. S. Kasbekar; *Commissioner of Co-operation and Registrar of Co-operatives (Pune)*, M. S. Palnitkar; *Divisional Commissioners*, M. V. Deo (*Bombay Dn.*), S. B. Kulkarni (*Pune Dn.*), B. K. Changule (*Aurangabad Dn.*), P. G. Gavai (*Nagpur Dn.*).

Bombay Port Trust, Shoorji Vallabdas Marg, Bombay 400001.

Chairman, S. Y. Ranade; *General Manager*, K. K. Uppal; *Secretary*, J. J. Parakh.

High Court, Mayo Rd., Bombay 400032.

Chief Justice, R. M. Kantawala; *Judges :* V. D. Tulzapurkar, B. N. Deshmukh, D. B. Padhye, J. R. Vimadalal, V. S. Deshpande, N. P. Nathwani, D. P. Madon, M. N. Chandurkar, M. S. Apte, R. R. Bhole, G. N. Vaidya, N. D. Kamat, S. B. Bhasme, M. H. Kania, S. K. Desai, S. M. Hajarnavis, P. S. Malvankar, R. K. Joshi, B. A. Masodkar, C. S. Dharmadikari, P. M. Mukhi, P. S. Shah, D. M. Rege B. M. Sapre, N. B. Naik, J. M. Gandhi, C. L. Dudhia, R. L. Aggarwal, B. Lentin, P. B. Sawant.

Registrar, P. G. Karnik; *Advocate-General*, H. M. Seervai; *Sheriff of Bombay*, J. G. Bodhe; *Dy. Sheirff*, D. R. Motfram.

Labour Court, Arun Chambers, Tardeo, Bombay 400034.

Presiding Officers : Greater Bombay: S. R. Samant, S. N. Pathak, T. S. Bhole, D. V. Shastri, S. D. Patel; Nagpur Dist.: P. D. Kulkarni, S. R. Pathak; Pune & Haveli Talukas of Pune Dist.: B. M. Rele.

Collectorate, Old Cusiom Hause, Bombay 400001.

Collector of Bombay & Bombay Suburban Dist., A. M. Deosthali, I.A.S.

Office of the Inspector-General of Police, Old Secretariat Bldg., II Floor, Bombay 400032.

Inspector-General of Police, A. G. Rajadhyaksha, I.P.; *Addl. Inspector-General of Police*, S. G. Pradhan., *Spl. Inspector-General of Police*, E. S. Modak, I.P.S.: *Asstt. Inspectors-General of Police*, M. G. Khatre, I.P.S., D. Ramachandran, I.P.S., V. V. Deo, I.P.S.

Greater Bombay Police Force, Dr. D. Naoroji Rd., Opp. Jyotiba Phule Market, Bombay 400001.

Commissioner of Police, M. G. Mugwe; *Dy. Commissioners of Police*, H. C. Almeida, D. D. Raje, P. R. Parthsarathy, V. Balchandran, S. S. Jog, S. L. Chiney, V. G. Vaidya, R. S. Kulkarni, R. B. Nalawade, S. D. Rege, S. G. Sahasrabhojane, R. C. Dembla, R. S. Sawant.

Directorate-General of Information & Public Relations, Sachivalaya, Bombay 400032.

Director-General of Information & Public Relations: P. G. Salvi. *Director of Information*, D. R. Samant; *Dy. Directors of Publicity*, M. D. Nadkarni (*Publications*), J. K. Nirmal (*Films*), K. Kanitkar (*Exhibition*), S. G. Sahasrabhojane (*News, Adm. & Public Relations*).

Maharashtra State Road Transport Corporation, Maharashtra Vahatuk Bhavan, Bellasis Rd., Bombay 400008.

Chairman, R. G. Saraiya; *Vice-Chairman*, K. V. Seshadri; *Gen. Manager*, Vacant; *Chief Accounts Officer*, P. C. Roy; *Dy. Gen. Manager (Mech. Engg.)*, M. L. Jagota; *Dy. Gen. Manager (I.O. & M.)*, V. R. Miranda; *Dy. Gen. Manager (Stores)*, M. K. Mantri; *Dy. Gen. Manager (Traffic)*. V. D. Shirke; *Div. Controller (Admn.) & Public Relations Officer*, S. Gupte.

Bureau of Economics and Statistics, D. D. Bldg., Old Custom House, Bombay 400001.

Director, M. A. Telang; *Joint Directors*, K. S. Narayanan (*E*), V. D. Mahajan (*C*).

Office of the General Manager, Greater Bombay Milk Scheme, Worli Dairy, Bombay 400018.

General Manager, Greater Bombay Milk Scheme, N. S. Dave; *Dairy Manager*, D. V. Malse; *Controller, Milk Transport*, D. R. Engineer; *Controller (P. & D.)*, T. G. Dandekar; *Controller of Milk Accounts and Financial Adviser*, S. S. Utpat; *Public Relations Officer*, Vacant.

Aarey Dairy, Aarey Milk Colony, Aarey, Bombay 400065.

Dy. Dairy Manager, P. N. Nayak; *Chief Executive Officer*, S. D. Patil.

Public Service Commission, Bank of India Bldg., Mahatma Gandhi Rd., Bombay 400001.

Chairman, M. N. Wankhede; *Secretary*, Y. S. Kulkarni.

Govt. of India Tourist Office, 123, Maharshi Karve Rd., Bombay 400020.

Director, Mrs. S. Jagannathan; *Asstt. Directors*, Mrs. V. Arni, K. S. Sandanam, Mrs. N. Malvi, R. Rangachari.

B.E.S.T. Undertaking, BEST House, Bombay 400001.

General Manager, P. B. Kerkar; *Asstt. Gen. Manager*, K. N. Rao; *Secretary*, M. A. Joshi; *Chief Engineer (Supply)*, A. P. Shenoy; *Chief Engineer (Transport)*, M. H. Narurkar; *Chief Traffic Manager*, A. R. Shanbhag.

Central Railway, Hqrs. Office :—Victoria Terminus, Bombay 400001.

General Manager, G. P. Warrier; *Senior Deputy General Manager*, V. Giridharadas; *Deputy General Manager (General)*, Mathew Varki; *Chief Public Relations Officer*, K. V. Pandit; *Chief Personnel Officer*, S. Rodrigues; *Chief Engineer*, Vacant; *Chief Engineer (Construct.)*, S. L. Gupta; *Chief Engineer (Survey & Const.)*, G. A. Sheriff; *Chief Operating Supdt.*, H. L. Verma; *Chief Commercial Supdt.*, M. P. Sathayre; *Chief Mechanical Engineer*, Vacant; *Chief Signal & Telecommunication*

Engineer, M. M. Agerwal; *Chief Signal & Telecommunication Engineer (Const.)*, S. A. Srinivasan; *Chief Electrical Engineer*, T. S. Viswanathan; *Chief Electrical Engineer (Const.)*, K. P. Ramalingam; *Financial Adviser & Chief Accountants Officer*, G. F. Penn Anthony; *Chief Security Officer*, G. W. Deshmukh; *Chief Medical Officer*, Dr. S. P. Pednekar, *Controller of Stores*, S. G. Ghosalkar.

Western Railway, Hqrs. Office, Churchgate, Bombay 400020.

General Manager, A. K. Gupta; *Senior Deputy General Manager*, M. M. Bam; *Deputy General Manager (General)*, O. E. Oommen; *Chief Public Relation Officer*, C. Prabhakaran; *Statistical Officer*, A. Araujo; *Law Officer*, R. B. Banerji; *Chief Personnel Officer*, J. S. Khergamvala; *Financial Adviser and Chief Accounts Officer*, G. M; Gidwani; *Financial Adviser and Chief Accounts Officer (Const.)*, R. Srinivasan; *Chief Engineer*, M. R. Reddy; *Chief Engineer (Const.) at Ahmedabad*, U. H. Mehta; *Chief Electrical Engineer*; S. Sarath; *Chief Signal and Telecommunication Engineer*, V. Parthasarathy; *Chief Signal & Telecommunication Engineer (Const.)* V. U. Shenai; *Chief Mechanical Engineer*, T. C. Chadda; *Chief Operating Supdt.*, R. Sampath; *Chief Commercial Supdt.* M. G. Punoose; *Chief Security Officer*, H. C. Singh; *Chief Medical Officer*, Dr. J. C. Mehta.

Railway Service Commission, Bombay, (*Churchgate Stn. Bldg., 1st Floor, Bombay* 400020).

Chairman, Nardeo Snatak; *Member*, P. S. Marathe; *Asst. Secretary*, R. Natarajan.

MANIPUR, Imphal.

Governor : Vacant.

Secretariat

Chief Secretary, D. G. Bhave; *Director of Medical & Health Services*, P. Kumud Singh; *Registrar, Co-operative Societies*, Chandrakumar Sharma; *Publicity Officer*, K. Kamini Singh; *Finance Secretary*, V. A. Mahajan.

(High Court : Given under Assam.)

MEGHALAYA, Shillong.

Governor : Vacant.

Ministers

Chief Minister, Political, Public Relations, Gen. Adm., Home, Administrative Reforms, Re-organisation, Cabinet Affairs, Edn., etc., Williamson Sangma.

Industries, Forests, Trade, Power, Mining & Geology, Supply, Transport & Communications, Tourism, Stanley D. D. Nicholas Roy.

Planning, Finance, Excise, Law, etc., B. B. Lyngdoh;

Agriculture (including Irrigation, Animal Husb. and Fisheries), Revenue, Comm. Dev., Co-op., Edwingson Bareh.

Health & Family Planning, Mun. Adm., Labour, Relief & Rehabilitation and Displaced Persons, Sandford K. Marak.

Minister of State

Public Relations, Edn., Social Welfare and Sports etc., Darwin D. Pagh.

Public Works (Roads & Bldgs.), Pub. Health Engg., Border Area Development, Grohonsing Marak.

Secretariat :

Chief Secretary, N. K. Rustomji, I.C.S.; *Secretary, Evaluation, Planning, Industries, Supply, Transport & Tourism*, R. P. Sinha, I.A.S.; *Secretary, Edn., Health & Family Planning, Mun. Adm.*, David W. M. Duncan, I.A.S.; *Secretary, Forests, Cooperation etc.*, S. L. Khosla, I.A.S.; *Secretary (Spl.), G.A., Elections, Political, Home, etc.*, V. Ramakrishnan, I.A.S.; *Secretary, Relief & Rehabilitation*, R. T. Rymbai, I.A.S.; *Secretary, Agri., Irrigation, Animal Husb., etc*, M. D. Rapthap, I.A.S.; *Secretary, P.W.D.*, F. Kharkongor.

(High Court : Given under Assam.)

MIZORAM, Aizawl.

Lt. Governor : Shanti Priya Mukherjee.

Chief Minister : Ch. Chhunga.

Ministers

K. T. Khuma (*Finance*) *etc.*, Vaivenga (*Education*) *etc.*, R. Thangliana (*Development*) *etc.*

Chief Secretary, R. M. Agarwal, I.A.S.; *Development Commissioner (Ex-Officio Secy.)*, K. B. Gurung, I.A.S.; *Finance Secretary*, Lalkhama, I.A.S.; *Secretary, Law & Judicial*, A. Sarkar; *Secretary, P.W.D. & Secy. to Chief Minister*, S. R. Vala, I.A.S.; *Director of Education, & Ex-Officio Secy.*, Dr. G. N. Chatterjee; *Director of Supply & Transport. (Ex-Officio Secy)*, G. C. Srivastava, I.A.S. *Director of Agri, Forests & Soil Conservation*, N. C. Bhattacharjee, I.F.S.; *Inspector General of Police*, I. J. Verma, I.P.S.; *Principal Engineer*, R. K. Sundaram.

MYSORE, Bangalore.

Governor : Mohanlal Sukhadia.

Ministers

Chief Minister in charge of Gen. Adm., Planning, Home, Major Irrigation, Sericulture, Industries, Archaeology & Museums, Libraries, N.C.C., Youth Services, D. Devaraj Urs.

Public Works & Electricity, H. M. Channabasappa.

Health, H. Siddaveerappa.

Mun. Adm., Housing, Panchayati Raj & Co-op., B. Basavalingappa.

Development, Social Welfare, M. Mallikarjuna Swamy.

Edn. A. R. Badrinarayana Iyengar.

Co-operation, A. Shankara Alva.

Revenue, N. Hutchamasthy Gowda.

Labour, Transport & Tourism, Wakfs, Azees Sait.

Agriculture & Forests, Patil Krishtagouda Hanamantagouda.

Finance, M. Y. Ghorpade.

Commerce & Industries, S. M. Krishna.

Law & Parl. Affairs, Naikar Dyamappa Kallappa.

Ministers of State

Vet. & Animal Husbandry, N. Chikke Gowda; *Major Irrigation*, H. N. Nanjegowda; *Food, Civil Supplies & Labour*, E. E. Vaz; *Fisheries*, K. T. Rathod; *Sericulture*, Nagaral Sangappa Balappa; *Archaeology & Museums, Libraries, N.C.C. & Youth Services*, Koujalgi Veeranna Shivalingappa; *Treasuries, Lotteries & National Savings Sccheme*, Shivanna Bheemappa; *Statistics, Information, etc.*, Devendrappa Ghalappa.

Secretariat

Chief Secretary, R. J. Rebello; *Secretaries: Agriculture and Forests*, R. A. B. Datar; *Commerce and Industry*, T. R. Satishchandra; *Development*, G. V. K. Rao; *Education*, Samuel Appaji; *Finance*, Mani Narayanaswamy; *Food*, I. P. Mallappa; *Home*, P. J. Fernandes; *Law*, C. Govinda Raju; *Public Works*, P. R. Dubashi; *Revenue*, K. Balasubramaniam; *Co-op.*, S. Varadan; *Social Welfare*, M. N. Partha Sarathy.

Heads of Departments

Director of Agriculture, Dr. H. L. Kulkarni; *Director of Animal Husbandry*, Dr. P. P. Kurumbia; *Registrar of Co-op. Societies*, M. Maharudriah; *Director of Public*

Instruction, B. Mariraj ; *Director of Collegiate Edn.*, Smt. M. Jayalakshamnanni ; *Director of Technical Edn.*, V. V. Shantamallappa ; *Director of Fisheries*, G. L. Rao ; *Chief Conservator of Forests*, G. R. Mavinkurve ; *Director of Health Services*, Dr. Putturaj Urs ; *Director of Industries*, B. S. Hanuman ; *Labour Commissioner*, Siddayya Puranik; *Inspector-General of Police*, C. V. S. Rao ; *Director, Bureau of Economics & Statistics*, R. Sampath Kumaran ; *Director of Sericulture*, D. R. Gunduraj ; *Director of Food Supplies*, A. Muniswamy Gowda ; *Drugs Controller*, K. N. Shanubhogue ; *Director of Emp. & Trg.*, M. Shankaranarayanan ; *Transport Commissioner*, V. S. Bhat ; *Director of Social Welfare*, A. R. Adinarayaniah ; *Director of Inf.*, K. S. N. Murthy ; *Director of Mines & Geology*, Dr. B. P. Radhakrishnan.

High Court, Atara Kacheri Bldgs., Bangalore 560001.

Chief Justice, G. K. Govinda Bhat ; *Judges*, Ahmed Ali Khan, D. M. Chandrashekhar, M. Santosh, C. Honniah, K. Bhimiah, B. Venkataswami, M. Sadanandaswamy, D. Noronha, V. S. Malimath, S. R. Range Gowda, E. S. Venkataramiah, K. Jagannatha Shetty, M. S. Nesargi, H. B. Datar ; *Registrar*, P. S. Bhat ; *Advocate-General*, N. Byra Reddy.

NAGALAND, Kohima.

Governor: Vacant.

Ministers

Chief Minister in Charge of Home and Gen. Adm., Planning and Co-ordination, Hokishe Sema.

Finance and Revenue, Industries and Commerce, R. C. Chitten Jamir.

Edn. and Cultural Research, Forests, Geology and Mining, Soil Conservation, J. Jasokie.

Inf., Publicity & Tourism, Agriculture, Law & Parl. Affairs, T. Kikon.

Tuensang Affairs, Excise, Relief & Rehab., Chingwang Konyak.

Transport, Communications, Comm. Development, etc., N. Theyo.

Ministers of State

Supply, Labour & Emp., etc., N. L. Odyuo ; *Planning & Co-ord., Medical & Public Health, Co-operation*, Ihezhe Sema ; *Public Works, Political, Elections*, Koramoa Jamir ; *Electricity, Finance & Revenue, Jails*, Riga Thong ; *Veterinary & Animal Husbandry, Industries & Commerce, etc.*, Tochi Hanso.

Deputy Ministers

Agri. & Fisheries, Forests, Geology & Mining, etc., Zulutemba Ao ; *Edn., Cult. Research, Youth & Social Welfare*, Nihovi Sema.

Chief Secretary, L. Lungalang ; *Dev. Commr. & Addl. Chief Secy.*, H. Zopionga ; *Commr.*, S. C. Dev ; *Secretaries*, Sashimeren Aeir (*Ind. & Commerce*), O. Kathipri (*Edn., Social Welfare & Research*) ; Z. Obed (*Law & Parl. Affairs*); R. K. Ganguly (*Finance*) ; L. L. Yaden (*P.W.D. & Electricity*) ; N. I. Jamir (*Agri., Forests, Veterinary, Geology & Mining*). *Jt. Secretaries*, C. N. Ngully (*Medical, Co-op. & Tuensang Affairs*) ; Abong Imlong (*Transport & Communications*) ; T. C. K. Lotha (*Home*).

Heads of Departments

Forests (Chief Conservator of), T. Jeyadev ; *Agriculture*, I. Panger Ao ; *Education*, Yajen Aier ; *Medical Health Service*, T. Ao ; *Inf., Publ. & Tourism*, N. Bendang Ao ; *Industry*, V. Sawney ; *Supply*, C. Wati Aier ; *Veterinary & Animal Husbandry*, Dr. Sasiekuo ; *Inspector-General of Police*, L. S. Verma.

(High Court : Given under Assam.)

ORISSA, Bhubaneswar.

Governor : B. D. Jatti.

Adviser to the Governor, K. Balachandran.

Secretariat

Chief Secretary and Dev. Commissioner, and Secretary, Political and Services, M. Ramkrishnayya, I.A.S.

Secretary, Planning and Co-ordination and Addl. Dev. Commissioner, Dr. S. K. Rau, I.A.S., *Secretary, Finance* C. Venkataramani, I.A.S. ; *Spl. Secretary, Agri. and Co-op. and Commissioner, Special Projects*, K. Ramamurthy, I.A.S. ; *Secretary Agri. and Co-op.*, Ramakanta Rath, I.A.S. ; *Secretary, Industries and Commerce*, J. P. Das, I.A.S.; *Secretary, C.D. and Panchayati Raj*, K. Ramamurty, I.A.S. ; *Secretary, Edn. and Cultural Affairs*, H. N. Dasmohapatra, I.A.S. ; *Secretary, Forests and Animal Husbandry*, P. Tripathy, I.A.S. ; *Secretary, Health and Family Planning*, U. N. Sahu, I.A.S. ; *Secretary Home*, P. Mishra, I.A.S. ; *Secretary Irrigation and Power, Mining and Geology, Works and Transport*, P. S. Habeeb Mohammed, I.A.S. ; *Secretary, Labour, Employment and Housing*, Bhupinder Singh, I.A.S. ; *Secretary, Tribal and Rural Welfare*, K. C. Singh Deo, I.A.S. ; *Secretary, Law*, B. K. Behera ; *Secretary, Revenue and Excise*, B. K. Mishra, I.A.S. ; *Secretary, Rural and Urban Development*, D. P. Tripathy, I.A.S. ; *Secretary, Supply*, M. K. Kukerja, I.A.S.; *Secretary, State Public Corpns, and Undertakings*, V. S. Mathews, I.A.S.

Heads of Departments at Bhubaneswar

Director of Family Planning, Dr. M. M. Pradhan, *Director of Health Services*, Dr. G. S. Dasmohapatra, *Registrar of Co-op. Societies*, S. Som, I.A.S. ; *Inspector-General of Prisons*, Dr. N. Mohanty ; *Director of Agriculture :* Dr. G. C. Sen Gupta ; *Director of Public Relations and Tourism*, G. K. Das ; *Director of Public Instructions (Higer Edn.)*, Prof. B. Das ; *Director of Public Instructions (Schools)*, Dr. D. C. Misra ; *Chief Engineer, Irrigation*, J. Tripathy ; *Chief Engineer, Electricity-cum-Chief Engineer, Electrical Project*, S. B. Mohanty ; *Director of Lift Irrigation*, R. K. Sahu ; *Labour Commissioner*, R. C. Patra, I.A.S. ; *Director of Mines*, Dr. B. D. Prusti ; *Director, Bureau of Statistics and Economics*, Dr. C. Misra ; *Chief Engineer, Roads and Bldgs.*, A. B. Mohanty, *Chief Engineer, Projects*, A. C. Padhi.

Heads of Departments at Cuttack

Chief Conservator of Forests, D. N. Chowdhury ; *Director of Animal Husbandry and Veterinary Services*, Dr. G. Biswal ; *Director of Fisheries*, Dr. Pyarimohan Misra ; *Director of Employment*, N. Mohanty, I.A.S. ; *Inspector General of Police*, R. K. Padhi, I.P. ; *Director of Industries*, S. K. Lal, I.A.S. ; *Director and Inspector-General of Police (Vigilance)* N. Chand, I.P.S. ; *Chairman, Public Service Commission*, A. K. Baren, I.A.S.

High Court, Cuttack.

Chief Justice, G. K. Mishra ; *Judges*, S. K. Ray, B. K. Patra, S. Acharya, R. N. Mishra, B. K. Ray, K. B. Panda ; *Registrar*, K. P. Mohapatra.

PONDICHERRY, Pondicherry.

Lt.-Governor : Chhedi Lal.

Ministers

Chief Minister in charge of Confidential, Cabinet and Gen. Adm., Appointments, Finance and Plng., Revenue, Labour, Fisheries, Agri., Co-op., Health, Family Plng., Animal Husb., M. O. H. Farook.

Home, Local Adm., Industries, Jails, Community Development, S. Ramassamy.

Education, Food, Law, S. Arumugham.

Public Works, Electricity, Ports, Harijan Welfare, Housing, Social Welfare, D. Ramachandran.

Secretariat

Chief Secretary, M. Chandramouli, M.A., I.A.S. ; *Secretary, Public Works, Edn. and Welfare,* R. Kuppurao, I.A.S. ; *Secretary, Finance and Revenue,* P. V. Swaminathan, I.A.S. ; *Secretary, Development and Local Adm.,* L. N. S. Mukundan, I.A.S. ; *Secretary Law and Labour,* Ch. Ramakrishna Rao ; *Secretary to the Administrator,* C. Ramou.

Principal Officials

Principal District and Sessions Judge and Chief of Judicial Services, K. Shamsuddin ; *Inspector-General of Police,* Abijit Mitra ; *Director of Public Instruction,* M. S. Krishnamurthy ; *Director of Health and Family Planning,* N. Selvaradja ; *Director of Public Works,* J. Deivasikamani; *Director of Agriculture,* K. A. Shaukat Ali ; *Director of Industries,* A. Gnanasambandan ; *Director of Fisheries,* E. Palani ; *Director of Harijan and Social Welfare,* J. Royalasamy ; *Director of Civil Supplies,* Felix Sequeira ; *Director of Electricity,* V. Satyanathan ; *Director of Animal Husbandry,* Dr. M. A. Swaminathan ; *Labour Commissioner,* P. R. Ramanathan ; *Public Relations Officer,* A. Mohandoss ; *Director of Tourism,* P. C. Mythily ; *Registrar of Co-operative Societies,* P. L. Samy ; *Administrator of Karikal,* A. Subbarapillai ; *Administrator of Mahe,* Prodipto Gosh ; *Administrator of Yanam,* M. Kannan.

PUNJAB, Chandigarh.

(*Chief Commissioner, Chandigarh,* B. P. Bagchi.)

Governor : Mahendra Mohan Choudhury.

Ministers

Chief Minister in Charge of Gen. Admn., Home, Vigilance, Adm. of Justice, Transport, Industries, Public Relations, Tourism and Cultural Affairs, Welfare of Defence Services, Co-op., Cottage Industries, Ind. Trg. and Ind. Co-operatives, P.W.D. (B. & R.), Political Sufferers, Urban Dev. and Urban Estates, Giani Zail Singh.

Community Development, Agriculture, Animal Husbandry, Dairying, Fisheries, Forests and Wild Life Preservation, Panchayati Raj, Elections and Excise & Taxation, Capt. Rattan Singh.

Edn., Revenue, Languages, Printing & Stationery, Land Reforms, Consolidation of Holdings, Relief and Rehabilitation, Colonisation, Sports, Civil Aviation, Parliamentary Affairs and Legislation, Umrao Singh.

Finance, Planning, Small Savings, Statistics, Health & Family Planning, Labour & Employment and Medical Edn., Hans Raj Sharma.

Irrigation and Power, Social Welfare and Welfare of Scheduled Castes and Backward Classes, Technical Edn. and Architecture, Housing and Slum Clearance, Gurmail Singh.

Ministers of State

Food and Supplies, Gian Chand Kharbanda ; *Local Government and Jails,* Joginder Paul Pandey.

Deputy Ministers

Nasib Singh Gill, Santokh Singh and Miss Sarla Prashar.

Secretariat

Chief Secretary, R. S. Talwar I.A.S. ; *Financial Commr., Revenue & Presiding Officer, Sales Tax Tribunal,* S. S. Grewal, I.A.S. ; *Financial Commr., Excise and Taxation,* H. S. Chhina I.A.S. ; *Finance Secretary,* V. P. Malhotra I.A.S. ; *Development Commr.,* Mrs. Serla Grewal, I.A.S. ; *Planning Commr.,* I. C. Puri I.A.S. ; *Secretary, Home Affairs, Industries, Ind. Trg. & Tourism,* K. S. Ahluwalia, I.A.S. ; *Secretary, PWE, B & R Public Health, Irrigation and Power, Tech. Edn.,* Paramjit Singh I.A.S. ; *Secretary, Health, Family Planning, Printing & Stationery,* Pritmohinder Singh I.A.S. ; *Secretary, Transport, Housing, Social Welfare,* R. P. Ojha, I.A.S. ; *Secretary, Edn., Language, etc.,* P. H. Vaishnav, I.A.S. ; *Secretary, Labour and Employment, Food and Supplies, etc.,* B. B. Mahajan, I.A.S. ; *Director, Agriculture,* G. S. Kalkat ; *Registrar, Co-op. Societies,* S. L. Kapur, I.A.S. ; *Director Inf. & Publicity, Tourism and Cultural Affairs,* Mrs. Shyama Mann ; *Director, Employment,* Sada Nand I.A.S. ; *Director, Health and Family Planning,* Sohan Singh ; *Director, Housing and Urban Development,* Sewa Singh ; *Director, Industries & Ind. Trg.,* N. N. Vohra ; *Labour Commr.,* Sada Nand I.A.S. ; *Director, Languages,* Ranjish Kumar ; *Director, Lotteries,* S. C. Pandit; *I.G. of Police,* H. S. Chhabra ; *Director, Panchayats & Comm. Dev.,* Gurdarshan Singh, I.A.S.

High Court, Punjab & Haryana, Chandigarh.

Chief Justice, Harbans Singh ; *Judges,* D. K. Mahajan, P. C. Pandit, R. S. Narula, R. S. Sarkaria, Gopal Singh, B. R. Tuli, A. D. Koshal, S. S. Sandhawalia, P. C. Jain, C. G. Suri, Manmohan Singh Gujral, S. C. Mital, D. S. Tewatia, B. S. Dhillon, Pritam Singh Pattar ; *Addl. Judges,* M. L. Verma, Gurnam Singh, M. R. Sharma, R. N. Mittal ; *Registrar,* Surinder Singh.

RAJASTHAN, Jaipur.

Governor : Sardar Jogendra Singh.

Ministers

Chief Minister in charge of Appts., G.A., Political, Cabinet Sectt., Tourism, Home, Industries, Civil Supplies & Public Grievances, Barkatullah Khan.

Medical & Health, Public Works, Power & Transport, etc., Harideo Joshi.

Agriculture, Ani. Husbandry, Famine Relief, Legal Affairs, etc., Paras Ram Maderna.

Co-operation, Linguistic Minorities, etc., Narain Singh Masuda.

Finance, Planning, Excise & Taxation, State Public Health Engg., Edn., etc., Chandan Mal Baid.

Revenue, Irrigation, Rajasthan Canal, Law & Justice, Economic & Statistics, Ram Chandra Chaudhary.

Elections, Labour & Emp., Social Welfare, etc., Onkar Lal.

Ministers of State

Appts., G.A., Tourism, Home, Industries & Civil Supplies, Public Grievances & Public Relations (Ind. Charge), Mrs. Kamla Baniwal ; *Edn., Co-operation, Linguistic Minorities, Mines (Ind. Charge), etc.,* Jhujhar Singh ; *Irrigation, Public Works, Local Self-Govt., Khadi & Gram Udyog, Forests, etc.,* Mool Chand.

Secretariat

Chief Secretary, S. L. Khurana ; *Secy., Agri. Production,* Mohan Mukerji ; *Commr., Removal of Pub. Grievances,* P. Sood ; *Secy., Irri., Power & P.W.D.,* Sher Singh ; *Secy., Edn.,* Mohinder Singh ; *Secy., Food,* N. C. Bhatnagar ; *Secy., Famine Relief,* J. S. Mehta ; *Secy., State Enterprises,* Brij Raj Bahadur ; *Secy., Revenue,* R. K. Shastri ; *Secy., Finance,* M. S. Sadasivan ; *Secy., Home,* Ram Singh Chouhan ; *Commr., Rehabilitation,* Deva Krishna Vyas ; *Commr., Deptl. Enquiries,* B. Hooja ; *Secy., L.S.G., Town Planning,* R. K. Saxena ; *Spl. Secy. (Agri.-Spl. Schemes),* V. C. Pande ; *Secy., Medical & Health,* K. L. Baraya ; *Secy., Ind.,* Naresh Chandra ; *Dir., Comm. Dev. & Panchayats,* H. S. Rawat ; *Spl. Secy., Agri., Animal Husb. & Co-op.,* K. V Sankaran ; *Spl. Secy.*

Finance, R. Ramakrishna ; *Spl. Secy., Food, Relief & Rural Works Programme*, Rajendra Jain ; *Spl. Secy., Planning*, Otima Bordia.

Principal Officials

Administrator, Rajasthan Canal Board, Hari Singh Choudhary ; *Inspector-General of Police*, Sultan Singh, *Inspector-General of Prisons*, Amar Singh Rathore ; *Director of Medical and Health Services*, Dr. P. D. Mathur, *Director of Animal Husbandry*, Dr. M. K. Doshi ; *Director of College Edn.*, Dr. M. P. Mathur ; *Director of Primary & Secondary Edn.*, L. N. Gupta ; *Director of Technical Edn.*, D. S. Mehta ; *Director of Agriculture*, Ranvir Singh ; *Director of Industries*, Anil Bordia ; *Chief Conservator of Forests*, G. K. Bora ; *Labour Commissioner*, N. K. Joshi ; *Registrar, Co-op. Societies*, V. I. Rajgopal ; *Director of Economics and Statistics*, L. K. Verma ; *Director of Public Relations*, R. S Bhatt ; *Director of Social Welfare*, P N. Singhal ; *Director of Transport*, Y. D. Sharma ; *Director of Employment*, V. D. Sharma ; *Chairman, Public Service Commissioner (Ajmer)*, B. D. Mathur ; *Director, Mines and Geology*, M. L. Sethi ; *Director of Ayurveda*, Daulat Ram Chaturvedi.

High Court, Jodhpur.

Chief Justice, Bhagwati Prasad Beri ; *Judges*, Prakash Narain Shinghal, Ved Pal Tyagi, Kan Singh, Lehar Singh Mehta, Chand Mal Lodha, Sohan Nath Modi (*Addl.*) ; Ranchhor Das Gattani (*Addl.*) ; Jagdish Prasad Jain (*Addl.*) ; Mohan Lal Joshi (*Addl.*) ; *Registrar*, R. L. Gupta ; *Advocate-General*, Dr. M. L. Singhvi.

TAMIL NADU, Madras.

Governor : K. K. Shah.

Ministers

Chief Minister in charge of Finance, Gen. Adm., Police, M. Karunanidhi.

Education, Official Language, Leg., Mun. Adm., Comm. Dev., Panchayats, etc., V. R. Nedunchezhian.

Public Health & Animal Husbandry, K. Anbazhagan.

Inf. & Public Relations, etc., N. V. Natarajan.

Harijan Welfare, Fisheries, Indians Overseas, etc., Smt. Sathiavani Muthu.

Public Works, P. U. Shanmugam.

Industries, Mines & Minerals, Employment & Trg., Textiles, Courts, Law, etc., S. Madhavan.

Public Works, Waqfs, etc., S. J. Sadiq Pasha.

Agriculture, Food Prodn., etc., Si Pa Aditanar.

Local Adm., S. Dharmalingam.

Food & Food Production, M. P. Narayanaswamy.

Labour, Tourism, Housing, etc., K. Rajaram.

Electricity, Forests, etc., O. P. Raman.

Transport, S. Ramachandran.

Religious Endowments, Milk, etc., M. Kannappan.

Secretariat (Fort St. George, Madras 600009.)

Chief Secretary, P. Sabhanayagam, I.A.S. ; *Secretaries* ; S. Venkataramanan, I.A.S. (*Finance*) ; R. Pasupathy, I.A.S. (*Revenue*) ; A· N Vedanarayanan, I.A.S. (*Agriculture*) ; A. Ramachander, I.A.S. (*Food*) ; V. S. Subbiah, I.A.S. (*Housing*) ; K. Diraviyam, I.A.S. (*Education*) ; C. N. Raghavan, I.A.S. (*Co-operation*) ; E. C. P. Prabhakar, I.A.S. (*Rural Dev. & Local Admn.*) ; A. Padmnabhan, I.A.S. (*P.W.D.*) ; C. Balasubramaniam, I.A.S. (*Law*) ; J. A. Ambasankar, I.A.S. (*Health & FP*) ; S. P. Ambrose, I.A.S. (*Home*) ; M. M. Rajendran, I.A.S. (*Labour*) ; Harban Singh, I.A.S. (*Industries*) ; N. Ananda Padmanabhan (*Prohibition & Excise*) ; D. K. Oza (*Social Welfare*) ; M. S. Ram, I.A.S. (*Transport*).

Principal Officials

Commr. for Milk & Livestock Dev., L. M. Menezes ; *Director of Emp. & Trg.*, L. M. Vasagam ; *Director of Harijan Welfare*, M. K. Gomethagavelu ; *Director of Agri.*, T. V. Anthony ; *Director of Animal Husb.*, Dr. G. Venkatachalam ; *Registrar of Co-op. Socs.*, P. M. Belliappa *Director of School Edn.*, S. V. Chitti Babu ; *Director of Rural Dev.*, M. Raghupathy ; *Director of Fisheries*, T. V. Venkataraman ; *Director of Collegiate Edn.*, V. T. Titus ; *Director of Inf. & Public Relations*, R. Nagarajan ; *Chief Conservator of Forests*, K. A. Bhoja Shetty ; *Director of Ind. & Commerce*, H. B. N. Shetty ; *Commr. of Labour*, G. Kamalarathinam ; *Commr. of Hindu Religious & Charitable Endowments*, K. S. Narasimhan ; *Director of Raffle*, D. Ranganathan ; *Director of Medical Edn.*, Dr. N. R. Ratnakanna ; *Director of Health Services & Family Planning*, Dr. P. R. Balakrishnan ; *Director of Tech. Edn.*, P. Sivalingam ; *Director of Vigilance & Anti-Corruption*, E. L. Starcey, I.P. ; *Director of State Transport*, K. J. M. Shetty ; *Director of Repatriate Rehab.*, M. Mayilvahanan ; *Commr. of Police*, K. R. Shenoy, I.P.S. ; *Inspector-General of Police*, F. V. Arul, I.P.S. ; *Inspector-General of Prisons*, P. Kuppuswamy ; *Director of Handlooms*, R. Kirubakaran ; *Director, Backward Classes*, R. Bandarinathan ; *Chairman, Public Service Commission*, R. Ramasubramaniam.

State Planning Commission, Ezhilagam, Madras 600005.

High Court, Madras.

Chief Justice, K. Veeraswami ; *Judges*, P. S. Kailasam, K. S. Venkataraman, K. S. Ramamurti, N. Krishnaswamy Reddy, T. Ramaprasada Rao, M. M Ismail, K N. Mudaliyar, K. S. Palaniswamy. P. R. Gokulakrishnan, G. Ramanujam, V. V. Raghavan, V. Ramaswami, S. Maharajan, B. S. Somasundaram, N. S. Ramaswami (*Addl.*), C. J. R. Paul (*Addl.*), S. Natarajan (*Addl*), A. Varadarajan (*Addl.*) ; *Registrar*, D. Soundara Pandiyan ; *Advocate-General*, S. Govind Swaminadhan.

Railway Service Commission, Cathedral Rd., Madras 600086.

Chairman, M. T. Lee ; *Member-Secy* , D. C. S. Rao.

Southern Railway (General Manager's Office, Park Town, Madras 600003.)

General Manager, V. Ramanathan ; *Senior Dy. General Manager*, N. Padmanabhan ; *Dy. General Manager (General)*, S. G. Raman ; *Chief Personnel Officer*, B. C. Mathias ; *Chief Engineer*, T. V. Joseph ; *Chief Engineer (Construction, Madras)*, V. C. A. Padmanabhan ; *Chief Signal & Tele-communication Engineer*, S. M. Gauri Shankar ; *Chief Operating Superintendent*, B. L. C. Sastri ; *Chief Commercial Superintendent*, K. Janakiraman ; *Chief Mechanical Engineer*, S. N. Mathur ; *Chief Electrical Engineer*, N. Ramamurthi ; *Financial Adviser & Chief Accounts Officer*, H. Ramamurthi ; *Chief Security Officer*, P. S. Chellappa ; *Chief Medical Officer*, Dr. A. Ramdas ; *Chief Engineer (Const.) (Bangalore)*, T. M. Thomas.

TRIPURA, Agartala.

Governor, Vacant.

Ministers

Chief Minister in charge of Revenue, Food & Civil Supplies, Public Relations, Tourism, Transport, Public Works Adm. Reforms, etc., Sukhomoy Sengupta.

Health & Family Planning, Jail & Statistics, Monoranjan Nath.

Finance, Relief & Rehabilitation, etc., Devendrakishore Chowdhury.

Tribal Welfare & Welfare of Scheduled Castes, Haricharan Choudhury.

Forests, Labour, Animal Husbandry & Local Self-Govt., etc., Kshitish Chandra Das.

Deputy Ministers

Social Edn., Women's Programme & Rural Water Supply, etc., Mrs. Basana Chakraborty; *Agri. & Comm. Development*; Mansoor Ali; *Edn., Co-operative & Panchayats*, Saileschandra Shom.

Secretariat

Chief Secretary, V. P. Singhal, Dev. Commissioner, Amar Singh; *Finance Secretary*, D. N. Barua; *Dt. & Sessions Judge*, S. B. Laskar; *Inspector-General of Police*, M. K. Mukerjee; *Dir. of Edn.*, I. K. Roy; *Dir. of Agri.*, S. Pal Choudhuri; *Dir. of Ind.*, S. Sarkar; *Conservator of Forests*, A. K. Ghosh. *Registrar of Co-op. Societies*, S. R. Chakraborty; *Dir. of Refugee Relief & Rehabilitation*, Hiranomy Ghosh; *Chief Labour Officer*, B. M. Chakraborty.

(High Court: Given under Assam).

UTTAR PRADESH, Lucknow.

Governor : Akbar Ali Khan.

Advisers, B. B. Lals Satish Chandra, M. A. Qureshi.

U.P. Ministry was dissolved on June 13, 1973.

Secretariat

Chief Secretary, Gyan Prakash, *Commissioner and Secretary, Agri. Production and Rural Dev.*, B. D. Sanwal; *Secretary, Home, Vigilance, Jail & Civil Defence*, S. G. Bose Malik; *Secretary, Administrative Reforms*, K. P. Singh; *Secretary, Appointment*, A. P. Dixit; *Liaison Commissioner of U.P. Government at Delhi*, A. K. Singh; *Secretary, Education*, P. N. Chaturvedi; *Secretary, Food & Civil Supplies*, K. C. Joshi; *Secretary, Finance*, S. V. S. Juneja; *Secretary, Forests, Harijan Sahayak & Social Welfare*, R. B. Saksena; *Secretary, Industries*, Rajeswar Prasad; *Secretary, Information*, A. P. Dixit; *Secretary, Irrigation*, B. L. Chak; *Secretary, Judicial & Legislative and Legal Remembrancer*, K. N. Goel; *Secretary, Local Self-Govt. and Relief & Rehabilitation*, Mohiuddin Ahmed; *Secretary, Medical, Public Health and Family Planning*, K. N. Srivastava; *Secretary, Planning, Evaluation and Economics and Statistics, National Integration*, T. P. Tewari; *Secretary, Public Works*, Mahmood Butt; *Secretary, Revenue*, G. C. Chaturvedi.

Principal Officials

Director of Agriculture, Ram Krishan; *Director of Animal Husb.*, G. S. Lal; *Cane Commr.*, L. K. Nagar; *Director of Civil Defence and Commandant General, Home Guards and Prantiya Rakshak Dal*, H. K. Kar; *Registrar, Co-op. Societies*, S. B. Saran; *Director of Economic Intelligence and Statistics*, D. P. Octania; *Commissioner, Excise*, A. N. Saigal; *Director of Education*, S. N. Mehrotra; *Director of Evaluation and Planning, Research and Action Institute*, B. S. Sharma; *Chief Conservator of Forests*, G. N. Singh; *Director, Harijan and Social Welfare*, Ramesh Chandra; *Housing Commissioner*, V. Kumar; *Director of Industries*, A. K. Sharma; *Director of Information*, S. Sharma; *Chief Engineer, Irrigation*, N. C. Saksena; *Inspector-General of Prisons*, S. S. Goel; *Labour Commissioner*, Vacant; *Director, Medical & Health Services and Family Planning*, D. N. Sharma; *Director of Panchayats*, Iftikhar Husain; *Inspector-General of Police*, A. K. Das; *Chief Engineer, P.W.D.*, S. B. Mathur; *Commr., Sales Tax*, N. P. Bhatnagar; *Chairman, State Electricity Board*, R. K. Trivedi; *Director, Trg. and Emp.*, P. C. Tyagi; *Transport Commr.*, N. P. Watal.

North-Eastern Railway, Gorakhpur.

General Manager, T. R. Vachha; *Sr. Deputy General Manager*, D. S. Sethi; *Dy. General Manager*, G. P. Srivastava; *Chief Comml, Supdt.*, Dr. K. B. Mathur; *Chief Optg. Suptd.*, S. G. Samant; *Chief Engineer*, A. K. Chakravarti; *Chief Electrical Engineer*, D. S. Mehta; *Chief Mech., Engineer*, D. V. Ketkar; *Chief Engineer (Const.)*, S. C. Uppal; *Chief Medical Officer*, B. P. S. Agarwal; *Chief Personnel Officer*, M. R. Sud; *Chief Security Officer*, Mahendra Singh; *Financial Adviser & Chief Accountants Officer*, M. S. Gill; *Chief Public Relations Officer*, S. N. Sharma.

Railway Service Commission, 19, Sardar Patel Marg, Allahabad 211001.

Chairman, Mir Qudrat Ali; *Member*, N. L. Ramdasia.

High Court, Allahabad.

Chief Justice, S. K. Verma; *Judges*, D. S. Mathur, B. D. Gupta, K. B. Asthana, G. C. Mathur, S. Chandra, Y. Nandan, A. K. Kirty, J. S. Trivedi, R. L. Gulati, R. B. Misra, K. N. Srivastava, C. D. Parekh, O. P. Trivedi, H. Swarup, M. N. Shukla, K. B. Srivastava, Jagmohan, Lal, H. N. Seth, M. H. Hussain, S. B. Malik, J. L. Sinha K. N. Singh, C. S. P. Singh, Gopi Nath, T. S. Misra, N. D. Ojha, K. N. Seth, P. N. Bakshi, H. L. Kapoor, H. N. Kapoor, Prem Prakash, Onkar Singh. *Registrar*, B. C. Jauhari.

WEST BENGAL, Calcutta.

Governor : A. L. Dias.

Secretariat, Writers Bldg., Calcutta 700001.

Ministers

Chief Minister, Home, Jail, Tourism, Urban Dev., Inf. and Public Relations, Wakf and Youth Services, Siddhartha Shankar Ray.

Agriculture, Comm., Deve., Rural Water Supply and Law, Abdus Sattar.

Public Undertakings, Cottage and Small-Scale Ind., Jainal Abedin.

Education, Mrityunjoy Banerjee.

Irrigation and Power, Abdul Barkat Gani Khan Ataul Chowdhury.

Commerce and Industries, Tourism, Tarun Kanti Ghosh.

Finance and Excise, Plng. & Dev., Sankar Ghosh.

Land Utilisation and Reforms, Gurupada Khan.

Forests, Animal Husbandry and Veterinary Services, Excise, Sitaram Mahato.

Food & Supplies and Diary Dev. Kashi Kanta Moitra.

Labour, Closed and Sick Industries, Dr. Gopal Das Nag.

Transport, Jails and Parl. Affairs, Gyan Singh Sohan Pal.

Health and Family Plng., Ajit Panja.

Refugee Rehabilitation, Relief and Social Welfare, Fisheries, etc., Santosh Roy.

Public Works and Housing, Bhola Nath Sen.

Ministers of State

Labour, Closed and Sick Industries, Pradip Bhattacharya; *Agri., Comm. Dev., Rural Water Supply and Law*, Ananda Mohan Biswas; *Municipal Services, Panchayat and Sports*, Prafulla Kanti Ghosh; *Refugee Rehabilitation, Relief and Social Welfare, including Tribal and Scheduled Caste Welfare*, Denis Lakra; *Health & Family Plang.* Govinda Naskar; *Public Works & Housing*, Ramkrishan Saraogi; *Public Undertakings, Cottage & Small-Scale Industries,* Atish Sinha ; *Home, Planning, Inf. & Public Relations, etc.*, Subrata Mukherjee ; *Dev., Planning & Waqf*, Dr. Fazle Haque.

Deputy Ministers

Education, Mrs. Amala Soren ; *Commerce & Industries, Tourism* G. S. Gurung ; *Irrigation & Power*, Suniti Chatterji.

Secretariat

Chief Secretary : A. Niyodi ; *Addl. Chief Secretary & Ex-Officio Dev. Commissioner*, B. R. Gupta ; *Finance Commissioner*, S. R. Das ; *Commissioner for Home Affairs*, M. M. Kusrai ; *Commissioner, Town & Country Plng.* J. C. Sengupta ; *Food Commissioner*, S. B. Ray ; *Commissioner, Agri. & Comm. Dev.*, K. P. A. Menon ; *Transport Commissioner*, S. K. Mukherjea ; *Education Secretary*, D. K. Guha ; *Secretary, Commerce & Ind.*, N. K. Biswas ; *Health Secretary*, A. K. Majumdar ; *Labour Secretary*, D. Bandopadhyaya ; *Secretary, Irrigation & Waterways*, R. P. Ganguly ; *Secretary, Relief*, S. S. Dutta ; *Secretary, Social Welfare & Co-op.*, S. S. Dutta ; *Secretary, Animal Husbandry, Vet. Services, Forests & Fisheries*, C. N. Penn Anthony ; *Secretary, Local Self-Govt.*, B. Mazumdar ; *Secretary, Public Works & Housing*, P. C. Banerjee ; *Jt. Secretary, Judicial*, L. C. Banerjee ; *Jt. Legal Remembrancer*, N. K. Dey ; *Jt. Secretary, Inf. & Public Relations*, A. K. Banerjee.

Heads of Departments

Inspector-General of Police, R. Gupta ; *Commissioner of Police*, S. Chaudhury ; *Inspector-General of Prisons*, D. C. Mukherjee ; *Labour Commissioner*, Quader Nawaz ; *Registrar of Co-op. Societies*, A. K. Chatterjee ; *Chief Conservator of Forests*, K. Lahiri ; *Dir. of Agri.*, A. K. Dutta ; *Dir. of Industries*, U. Chatterjee ; *Dir. of Public Instruction*, N. R. Kar ; *Dir. of Inf. & Public Relations*, A. K. Banerjee ; *Dir. of Fisheries*, B. N. Podder ; *Milk Commissioner*, M. Konar ; *Dir. of Health Services*, K. C. Basu Mallick ; *Dir. of Animal Husbandry*, H. Guha ; *Dir. of Tourism*, S. Singh ; *Dir. of State Statistical Bureau*, Smt. Chameli Bose ; *Excise Commissioner*, S. K. Mukherjee ; *Commissioner of Commercial Tax*, M. G. Kutty.

Eastern Railway, 17, Netaji Subhas Rd., Calcutta 700001.

General Manager, V. P. Sawney ; *Sr. Dy. General Manager*, P. R. Mukherjee ; *Financial Adviser & Chief Accounts Officer*, R. M. Roy ; *Chief Optg. Supdt.*, R. Srinivasan ; *Chief Comm. Supdt.*, R. Jagannathan ; *Chief Engineer*, J. C. Mehta ; *Chief Engineer, (Cons.)*, H. K. Banerjee ; *Chief Signal and Tel. Com. Engineer*, D. N. Basak , *Chief Personnel Officer*, S. C. Banerjee , *Chief Security Officer*, B. C. Mazumdar, *Chief Mechanical Engineer*, S. C. Misra ; *Chief Elec. Engineer*, S. T. Udeshie ; *Chief Medical Officer*, Dr. J. R. Gadeock ; *Chief Public Relations Officer*, M. N. Radhakrishna.

South-Eastern Railway, 11, Garden Reach Rd., Calcutta 700043.

General Manager, G. S. A. Saldanha, *Sr. Dy. General Manager*, G. C. Lahiri, *Financial Adviser & Chief Accounts Officer (Con.), Bilaspur*, A. V. Subramanian ; *Chief Commercial Supdt.*, V. K. Sthanunatha Iyer ; *Chief Engineer*, P. R. Chopra ; *Chief Engineer (Const.), Bilaspur*, S. Ramamurthy ; *Chief Elect. Engineer*, K. C. Priyadarshee ; *Chief Mechanical Engineer*, K. S. Rajan ; *Chief Medical Officer*, Dr. S. L. Malhotra ; *Chief Operating* Suptd., C. D. Chatterjee ; *Chief Personnel Officer*, K. S. Venkatachalam ; *Chief Security Officer*, S. K. Mitra ; *Chief Signal & Telecomm. Engineer*, P. A. D'Souza ; *Controller of Stores*, V. N. Agharkar ; *Chief Engineer (Project & Dev.)*, P. K. Mukherjee ; *Chief Signal & Telecomm. Engineer (Const.)*, K. J. M. Jacob ; *Chief Public Relations Officer*, S. K. Khanna.

Railway Service Commission, Mackinnon Mackenzie Bldg., 16, Standard Rd., Calcutta 700001.

Chairman, Hari Hara Das ; *Member*, S. Ghosh Dastidar ; *Asstt. Secretary*, B. K. Chowdhury.

High Court, Calcutta.

Chief Justice, Sankar Prasad Mitra ; *Judges*, Amaresh Chandra Ray, Chandra Narayan Laik, B. C. Mitra, A. C. Gupta, A. N. Sen, Sisir Kumar Mukherjea, S. C. Ghose, R. M. Datta, N. C. Talukdar, S. C. Deb, A. K. Sinha, S. Mukharji, T. K. Basu, S. K Datta, P. K. Banerjee, A. K. Basu, A. K. Sen, A. P. Das, Chittatosh Mookerjee, Amiya Kumar Mookerjee, M. M. Dutt, Purna Chandra Borooah, A. K. De, S. K. Roychowdhury, Kumarjyoti Sengupta, R. N. Bhattacharya, S. K. Bhattacharya, S. K. Hazra ; *Addl. Judges*, A. K. Janah, P. K. Chanda, N. C. Mukherji, A. N. Banerjee, Sudhamay Basu, A. K. Sarkar ; *Advocate General*, Gauri Nath Mitra ; *Sheriff*, T. M. Zarif ; *Registrar (Appellate Side)*, D. P. Chatarji ; *Registrar (Original Side)*, Samiran Sen.

INDIAN DIPLOMATIC REPRESENTATIVES ABROAD

EMBASSIES

AFGHANISTAN : *Ambassador :* B. Deva Rao. *Address :* Embassy of India, Malali Wat, Shahr-e-Nau, Kabul.

ALGERIA : *Ambassador :* S. Shahabuddin. *Address :* Embassy of India, 119 ter, Rue Didouche Mourad, Algiers.

ARAB EMIRATES, UNION OF : *Ambassador* (also Ambassador to Bahrain, Qatar, and Kuwait) : V. A. Kidwai, Resident in Kuwait.

ARGENTINA : *Ambassador* (also Ambassador to Paraguay and Uruguay) : M. M. Khurana. *Address :* Embassy of India, Paraguay 580 (3rd Flr.), Buenos Aires.

AUSTRIA : *Ambassador :* R. Jaipal. *Address :* Embassy of India, 1, Opernring, A1010, Vienna 1.

BAHRAIN : *Ambassador* (Also Ambassador to Kuwait, Qatar and The Union of Arab Emirates) : V. A. Kidwai. Resident in Kuwait.

BELGIUM : *Ambassador* (also Ambassador to Grand Duchy of Luxembourg) : K. B. Lall.* *Address :* Embassy of India, Avenue Moliere, 121, Brussels 1180.

BOLIVIA : *Ambassador* (Also Ambassador to Brazil) : Prithi Singh. Resident in Brasilia. (Embassy of India, La Paz).

BRAZIL : *Ambassador* (also Ambassador to Bolivia) : Prithi Singh. *Address :* Embassy of India, Edificio Venancio-VI, 10 Sub Sole, Lote, E 8, Setor de Diversoes Sul, DF. Brasilia.

BULGARIA : *Ambassador :* K. P. Lukose. *Address :* Embassy of India, 31 Blvd. Patriarch Eftimii, Sofia.

BURMA : *Ambassador :* R. Khathing. *Address :* Embassy of India, Oriental Assurance Bldgs., 545–47, Merchani St., Rangoon.

BURUNDI (Kingdom of) : *Ambassador* (also Ambassador to the Republic of Rwanda & High Commissioner to

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* Additionally the Ambassador is India's Special Representative for Economic, Financial and Commercial Affairs, and is also accredited to the European Economic Community and the European Coal and Steel Community. He is permanent Representative to GATT and UNCTAD.

Uganda) : Dharam Deva. Resident in Kampala (Embassy of India, Bujumbura).

CAMEROUN : *Ambassador* (also Ambassador to Dahomey and Togo & High Commissioner to Nigeria) : A. N. Mehta. Resident in Lagos (Embassy of India, Yaounde).

CHILE : *Ambassador* (also Ambassador to Ecuador & Peru) : G. J. Malik. *Address :* Embassy of India, 871, Triana, Santiago.

CHINA (PEOPLES' REPUBLIC OF) : *Minister & Charge-d'Affaires :* L. L. Mehrotra. *Address :* Embassy of India, 8, Kwang Hua Lu, Peking.

COLOMBIA : *Ambassador:* Madan Jeet Singh, Embassy of India, Bogota.

CONGO (Brazaville) : *Ambassador* (also Ambassador to Zaire Republic & Gabon) : Syed Waheed Zaman. Resident in Kinshasa.

COSTA RICA : *Ambassador* (also Ambassador to U.S.A.) : T. N. Kaul (Resident in Washington). (Embassy of India, San Jose).

CUBA : *Ambassador* (also Ambassador to Nicaragua and Mexico) : S. K. Roy. Resident in Mexico City. Embassy of India, Calle 21 NRO. 202, esquina a K, Vedado, Havana.

CZECHOSLOVAKIA: *Ambassador:* V. Siddharthachary. *Address :* Embassy of India, Valdstejnska 6, Prague 1.

DAHOMEY : *Ambassador :* A. N. Mehta (Also Ambassador to Cameroun and Togo & High Commissioner to Nigeria). Resident in Lagos (Embassy of India, Cotonou).

DENMARK : *Ambassador :* Mrs. K. Rukmini Menon. *Address :* Embassy of India 8-II, Amagertory, 1160 Copenhagen.

ECUADOR : *Ambassador* (also Ambassador to Chile & Peru) : G. J. Malik. Resident in Santiago.

EGYPT, ARAB REPUBLIC OF : *Ambassador :* A. B. Bhadkamkar. *Address :* Embassy of India, 5, Sharia Maahad el Swissri, P.O. Box 718, Cairo.

ETHIOPIA : *Ambassador :* K. C. Sen Gupta. *Address :* Embassy of India, P.O. 528, Addis Ababa.

FINLAND : *Ambassador :* C. J. Stracey. *Address :* Embassy of India, Kansakoulukatu, 5 B 14, Helsinki 10.

FRANCE : *Ambassador :* D. N. Chatterjee. *Address :* Embassy of India, 15, Rue Alfred Dehodencq, Paris, 16.

GABON : *Ambassador* (also Ambassador to Zaire Republic & Brazaville-Congo) : Syed Waheed Zaman. Resident in Kinshasa.

GERMANY (DEMOCRATIC REPUBLIC OF) : *Ambassador :* J. C. Ajmani. *Address :* Embassy of India, Clara-Zetkin-Strasse 97/1 108-Berlin, (GDR).

GERMANY (FEDERAL REPUBLIC OF) : *Ambassador :* Y. K. Puri. *Address :* Embassy of India, 262, Adenauerallee, 53, Bonn.

GREECE : *Ambassador* (also Ambassador to Yugoslavia) : P. N. Menon. Resident in Belgrade (Embassy of India, Athens).

GUATEMALA : *Ambassador :* Vacant. *Address :* Embassy of India, Guatemala.

GUINEA : *Ambassador :* Shiam Sunder Nath. *Address :* Embassy of India, Avenue de la Republique Immeuble, Kebe, B.P. 186/Bis., Conakry 1.

HUNGARY : *Ambassador :* Miss C. B. Muthamma. *Address:* Embassy of India, Buzavirag Utca 14, Budapest II.

ICELAND : *Ambassador :* S. N. Chopra (Also Ambassador to Norway). Resident in Oslo.

INDONESIA : *Ambassador :* Mahboob Ahmad. *Address :* Embassy of India, 44 Kebon Sirih, Djakarta.

IRAN : *Ambassador :* R. D. Sathe. *Address :* Embassy of India, 166, Avenue Saba Shomali, Tehran.

IRAQ : *Ambassador :* K R. P. Singh. *Address :* Taha St., Najeeb Pasha, Adhamiya, Baghdad.

IRELAND : *Ambassador :* S. V. Patel. *Address :* 58, Upper Leeson St., Dublin 4.

ITALY : *Ambassador* (also High Commissioner to Malta) : Apa B. Pant. *Address.* Embassy of India, *via* Francesco Denza, 36, Rome.

IVORY COAST : *Ambassador* (also Ambassador to Senegal, Mauritania & Upper Volta & High Commissioner to Gambia): H. K. Singh. Resident in Dakar (Embassy of India, Abidjan).

JAPAN : *Ambassador :* S. Thiruvenkadathan. *Address :* Embassy of India, 2-Chome, 2-11, Kudan Minami Chiyodaku, Tokyo.

JORDAN : *Ambassador* (also Ambassador to Lebanon & High Commissioner to Cyprus) : A. S. Mehta. Resident in Beirut. *Address :* Embassy of India, Taufiq Marar Bldg., Near 1st Circle, Jabel, Amman.

KHMER REPUBLIC (formerly CAMBODIA) : *Ambassador :* Vacant, *Address :* Embassy of India, 29, Samdech Tieng, Phnom Penh.

KUWAIT : *Ambassador* (also Ambassador to Bahrain, Qatar and the Union of Arab Emirates) : V. A. Kidwai. *Address :* Embassy of India, Ring Rd. No. 1, Bldg. No. 3, Dasmah, Kuwait.

LAOS : *Ambassador :* A. S. Gonsalves. *Address :* Indian Embassy, P.O. Box No. 225, Rue Pangkham, Vientiane.

LEBANON : *Ambassador* (also Ambassador to Jordan & High Commissioner to Cyprus) : A. S. Mehta. *Address :* Embassy of India, Sahamarani Bldg., 31, Kantari St., Beirut.

LIBERIA : *Ambassador :* (also High Commissoner to Ghana and Sierra Leone) : S. Bikram Shah. Resident in Accra (Embassy of India, Monrovia).

LIBYA : *Ambassador :* Homi J. H. Taleyarkhan. *Address :* Embassy of India, 16/18, Sh. Armondi Garden City, P.O. Box 3150, Tripoli.

LUXEMBOURG : *Ambassador* (also Ambassador to Belgium) : K. B. Lall. Resident in Brussels.

MADAGASCAR : *Ambassador :* K. R. Krishnaswami. *Address :* 77, Ave. Marechal Foch, Tananarive.

MALDIVES : *Ambassador :* Vincent H. Coelho (also High Commissioner to Sri Lanka). Resident in Colombo.

MALI : *Ambassador :* Vacant. Embassy of India, Bamako.

MAURITANIA : *Ambassador* (also Ambassador to Senegal, Ivory Coast and Upper Volta and High Commissioner to Gambia) : Hari Krishna Singh. Resident in Dakar. (Embassy of India, Nouackchott).

MEXICO : *Ambassador* (also Ambassador to Cuba, & Nicaragua) : S. K. Roy. *Address :* Embassy of India, Comte 44, Mexico 5, D.F.

MONGOLIA : *Ambassador :* Sonam Narboo. *Address :* Embassy of India, 26 Peace St., Ulan Bator.

MOROCCO : *Ambassador* (also Ambassador to Tunisia) : V. M. Madhavan Nair. 10 Auenue de Champagne, Agdal, Rabat.

NEPAL : *Ambassador :* L. P. Singh. *Address :* Embassy of India, G.P.O. Box 292, Kathmandu.

NETHERLANDS : *Ambassador :* Lt. Gen. Yadavindra Singh. *Address :* Embassy of India, Buitenrustweg 2, The Hague.

NICARAGUA : *Ambassador* (also Ambassador to Mexico & Cuba) : S. K. Roy. Resident in Mexico City.

NORWAY : *Ambassador :* S. N. Chopra (also Ambassador to Iceland). *Address :* Embassy of India, Skovveien 12, 1st Flr. Oslo 2.

OMAN (SULTANATE OF) : *Ambassador :* Nirmal Jeet Singh. *Address :* Embassy of India, P. Box 77, Muscat.

PANAMA : *Ambassador :* P. P. D'Souza. Embassy of India, Panama City.

PARAGUAY : *Ambassador* (also Ambassador to Argentina and Uruguay) : M. M. Khurana. Resident in Buenos Aires. (Embassy of India, Asuncion).

PERU : *Ambassador* (also Ambassador to Chile & Ecuador) : G. J. Malik, Resident in Santiago (Embassy of India, Paseo De La Republica 291 of 1201, Lima).

PHILIPPINES : *Ambassador :* P. S. Naskar. *Address :* Embassy of India, RM 502 Compos Rueda Bldg., 101 Tindalo St., Makati Rizal (Greater Manila).

POLAND : *Ambassador :* K. Natwar Singh. *Address :* Embassy of India, No. 16, Niegolewskieg, Warsaw 86.

QATAR : *Ambassador* (also Ambassador to Bahrain, Kuwait and Union of Arab Emirates) : V. A. Kidwai. Resident in Kuwait.

RUMANIA : *Ambassador :* V. K. Ahuja. *Address :* 16, Str. Stefan Gheorghiu 16, Bucharest.

RWANDA (Republic of) : *Ambassador* (also Ambassador to the Kingdom of Burundi & High Commissioner to Uganda) : Dharam Deva. Resident in Kampala.

SAUDI ARABIA : *Ambassador :* Zahir Ahmed. *Address :* Embassy of India, Sulaiman-Al-Turki Bldg., Al Sharafiah, Airport Rd., Jeddah.

SENEGAL : *Ambassador* (also Ambassador to Ivory Coast, Mauritania & Upper Volta & High Commissioner to Gambia) : Hari Krishna Singh. *Address :* Embassy of India, P. Box 398, Dakar.

SOMALIA : *Ambassador :* J. B. Muthyal Rao. *Address :* Embassy of India, P. Box 955, Mogadishu.

SPAIN : *Ambassador :* Narendra Singh. *Address :* Calle Velazquez, 93, Madrid.

SUDAN : *Ambassador :* I. P. Singh. *Address :* Embassy of India, P. Box No. 707, Khartoum.

SWEDEN : *Ambassador :* A. K. Damodaran. *Address:* Embassy of India, V. Tradgardsgatan 15, Stockholm.

SWITZERLAND : *Ambassador* (concurrently accredited as Ambassador to the Vatican) : Arjan Singh. *Address :* Embassy of India, 20, Kalcheggeweg, 3000 Berne.

SYRIAN ARAB REPUBLIC : *Ambassador :* P. K. Guha, *Address :* Embassy of India, 40/46, Adhan Malki St., Yassin Houcilati, Damascus.

THAILAND : *Ambassador* (also Permanent Representative of India to ECAFE) : Romesh Bhandari. *Address :* Embassy of India, 139, Pan Rd. Bangkok.

TOGO : *Ambassador* (also Ambassador to Cameroun and Dahomey and High Commissioner to Nigeria) : A. N. Mehta. Resident in Lagos. (Embassy of India, Lome).

TUNISIA : *Ambassador* (also Ambassador to Morocco) : V. M. Madhavan Nair. Resident in Rabat, Morocco (Embassy of India, Rue du 1er Juin, 5, Impasse de Boulogne, Tunnis).

TURKEY : *Ambassador :* K. R. Narayanan. *Address :* Embassy of India, No. 24, Kibris Sokak, Cankaya, Ankara.

UNITED STATES OF AMERICA : *Ambassador* (also Ambassador to Costa Rica) : T. N. Kaul. *Address :* Embassy of India, 2107 Massachusetts Avenue, N. W. Washington D. C. 20008.

UPPER VOLTA : *Ambassador* (also Ambassador to Senegal, Mauritania and Ivory Coast & High Commissioner to Gambia) : H. K. Singh. Resident in Dakar (Embassy of India, Ouagadougou).

URUGUAY : *Ambassador* (also Ambassador to Argentina and Paraguay) : M. M. Khurana. Resident in Buenos Aires (Embassy of India Monteviedeo).

U.S.S.R. : *Ambassador :* Dr. K. S. Shelvankar. *Address :* Embassy of India, Nos. 6 and 8, Ulitsa Obuka, Moscow.

VATICAN : *Ambassador* (concurrently accredited as Ambassador to Switzerland) : Arjan Singh. Resident in Berne.

VENEZUELA : *Ambassador :* A. R. Kakodkar. *Address :* Embajada de la India, Edificio Nuevo Centro, Avenida. Libertador, Apartado de Correos del Este. 61585, Chacao, Caracas—106.

VIETNAM (DEMOCRATIC REPUBLIC OF) : *Ambassador :* Sisir Gupta. *Address :* 58, Tran Hung Dao St., Hanoi.

YEMEN ARAB REPUBLIC : *Ambassador :* Syed Nazir Hussain, (Embassy of India, Al-Amri Bldg., Gamal Abdul Nasser St., Sanaa).

YEMEN (PEOPLE'S DEMOCRATIC REPUBLIC OF) : *Ambassador :* J. L. Malhotra. *Address :* Embassy of India, Premjee Chambers, Steamer Point, Aden.

YUGOSLAVIA : *Ambassador* (also Ambassador to Greece) : P. N. Menon. *Address :* Embassy of India, Proleter Skih Brigade 9, Belgrade.

ZAIRE REPUBLIC : *Ambassador* (also Ambassador to Brazaville Congo and Gabon) : Syed Waheed Zaman. *Address :* 18B, Avenue 8 eme Armee, Kinshasa.

HIGH COMMISSIONS

AUSTRALIA : *High Commissioner*** : Vacant. *Address :* 92, Mugga Way, Red Hill, Canberra.

BANGLADESH : *High Commissioner:* S. Dutt. *Address :* Indian High Commission, Road No. 2, Dhanmondi Residential Area, Dacca 2. Asstt. High Commission of India, 1/B, Baizid Bostami Rd., Nasirabad, Chittagong.

BARBADOS : *High Commissioner :* S. M. Aga (also High Commissioner to Trinidad & Tobago and Jamaica & Consul-General to Surinam). Resident in Port of Spain (Trinidad). *Address :* High Commission of India, Bridgetown.

BOTSWANA : *High Commissioner* (Also High Commissioner to Zambia) : A. M. Thomas. Resident in Lusaka.

CANADA : *High Commissioner :* U. S. Bajpai. *Address :* 200, McLaren Street, Ottawa 4.

CYPRUS : *High Commissioner* (also Ambassador to Jordan, Lebanon) : A. S. Mehta. Resident in Beirut. (High Commission of India, Nicosia.)

FIJI : *High Commissioner* (also High Commissioner to Tonga) : Bhagwan Singh. *Address :* G.P.O. Box 405, Nina Street, Suva. Jurisdiction extends to the UN Trust Territory of Caroline and Marshal Island ; Naur ; Solomon Island ; New Hebrides ; Gilbert and Elice Islands ; New Caledonia ; and Society Islands.

GAMBIA : *High Commissioner* (also Ambassador to Senegal, Ivory Coast, Mauritania & Upper Volta) : H. K. Singh. Resident in Dakar.

GHANA : *High Commissioner* (also Ambassador to Liberia and High Commissioner to Sierra Leone) : S. Bikram Shah. *Address :* P. Box 3040, Accra.

GUYANA : *High Commissioner :* Dr. Gopal Singh. *Address :* 78, Church Street, Georgetown.

JAMAICA : *High Commissioner* (also High Commissioner to Trinidad & Tobago and Barbados & Consul-General to Surinam) : S. M. Aga. Resident in Port of Spain. *Address :* High Commission of India, Kingston.

** Jurisdiction extends to the UN Trust Territories of Papua and New Guinea.

KENYA : *High Commissioner :* K. C. Nair. *Address :* Jeevan Bharati Bldg., Harambee Avenue, Nairobi.

LESOTHO : *High Commissioner* (also High Commissioner to Malawi & Swaziland): S. K. Chowdhry. Resident in Blantyre.

MALAWI : *High Commissioner :* S. K. Chowdhry (also High Commissioner to Lesotho & Swaziland). *Address :* High Commission of India, P. Box No. 398, Blantyre.

MALAYSIA : *High Commissioner :* A. K. Dar. *Address :* P. Box No. 59, 19, Jalan Melaka, Kuala Lumpur.

MALTA : *High Commissioner* (also Ambassador to Italy) : Apa B. Pant. Resident in Rome. (High Commission of India, Valetta.)

MAURITIUS : *High Commissioner :* K. D. Sharma. *Address :* Bank of Baroda Bldg., Sir William Newton St., Port Louis.

NEW ZEALAND : *High Commissioner :* L. N. Ray (also High Commissioner to Western Samoa). *Address :* 49, Willis Street, Wellington.

NIGERIA : *High Commissioner* (also Ambassador to Cameroun, Dahomey and Togo Republics) : A. N. Mehta. *Address :* P. O. Box 2322, Lagos.

SIERRA LEONE : *High Commissioner* (also High Commissioner to Ghana and Ambassador to Liberia) : S. Bikram Shah. Resident in Accra. *Address :* High Commission of India, Freetown.

SINGAPORE : *High Commissioner :* Thomas Abraham. *Address :* India House, 31, Grange Rd., Singapore.

SRI LANKA (CEYLON) : *High Commissioner :* Vincent H. Coelho (also Ambassador to Maldives). *Address :* State Bank of India Bldg., Prince St., Fort, Colombo-3. *Asstt. High Commissioner,* P. R. Nambisan. *Address :* 31, Rajapihilla Mawatha, Kandy.

SWAZILAND : *High Commissioner,* S. K. Chowdhry (also High Commissioner to Lesotho and Malawi). Resident in Blantyre.

TANZANIA : *High Commissioner :* J. S. Mehta. *Address:* 28, Independence Avenue, Dar-es-Salaam.

TONGA : *High Commissioner* (also High Commissioner to Fiji) : Bhagwan Singh. Resident in Suva.

TRINIDAD & TOBAGO : *High Commissioner* (also High Commissioner to Jamaica and Barbados. Commissioner to the Associated States — Antigua, Grenada, Dominica, St. Kitts — Nevis — Anguilla, St. Lucia. Commissioner to St. Vincent, Montserrat, the Bahamas and also Cayman Islands ; Consul-General to Surinam) : S. M. Aga. *Address :* P. Box No. 530, Port of Spain (Trinidad).

UGANDA : *High Commissioner* (also Ambassador to the Kingdom of Burundi & Republic of Rwanda) : Dharam Deva. *Address :* Bank of India Bldg., Kampala Rd., Kampala.

UNITED KINGDOM : *High Commissioner :* B. K. Nehru. *Dy. High Commissioner :* M. Rasgotra. *Address :* India House, Aldwych, London, W.C. 2.

WESTERN SAMOA : *High Commissioner:* L. N. Ray (also High Commissioner to New Zealand). Resident in Wellington.

ZAMBIA : *High Commissioner* (also High Commissioner to Botswana) : A. M. Thomas. *Address :* High Commission of India, P.O. Box 2111, Lusaka.

SPECIAL MISSIONS

BHUTAN : *Representative of India :* A. B. Gokhale. *Address :* Lungtenzempa, Thimphu.

SIKKIM : *Political Officer in Sikkim :* L. L. Mehrotra. *Address :* Gangtok *via* Siliguri (West Bengal).

UNITED NATIONS : *Ambassador/Permanent Representative :* Samarendra Sen. *Address :* Permanent Mission of India to the United Nations, New India House, 3-East 64th St., New York. Geneva Office : 2-Place des Eaux-Vives, Geneva. *Permanent Representative,* B. C. Mishra.

LAOS : *Chairman/Secy.-General, I.C.S.C. and Leader of Indian Delegation :* J. N. Dhamija. *Address :* International Commission for Supervision and Control in Laos, Vientiane.

COMMISSIONS

HONG KONG : *Commissioner for the Government of India :* L. N. Rangarajan. *Address :* 304, A.I.A. Bldg., Stubbs Rd., Hong Kong.

MOMBASA : *Asstt. Commissioner :* B. R. Sharma. *Address :* Commission of India, LIC Bldg., Nkrumaha Rd., Mombasa.

CONSULATES-GENERAL & CONSULATES

ASUNCION (Paraguay) : *Consul-General :* Antonio Rudolfo Zuccolillo. *Address :* Consulate-General of India, Cerro Coray. Paraguari, Asuncion.

ATHENS : *Consul :* L. E. Vafiadias. *Address :* Consulate of India, 1, Valaoritou St., Athens 134.

BARCELONA (Spain) : *Consul :* Louis Valeriano Gonzalez Perez. *Address :* Consulate of India, Calle Mastro Perez Cabrero 3, Barcelona.

BASRAH (Iraq) : *Consul :* M. L. Puri. *Address :* Consulate of India, Palestine Rd., Basrah.

BERLIN : *Consul General :* S. L. Kaul Kilam. *Address :* Consulate General of India, Joachimstaler Strasse 28 (1st Floor), Berlin-15.

BOGOTA (Colombia) : *Consul-General :* Dr. Antonio Izquiesdo D. *Address :* Consulate-General of India, Callee 86 A, No. 19-13, Bogota.

CANARY ISLANDS : *Consul :* C. Boolchand. *Address :* Consulate of India, 35, Triana, Las Palmas.

CHIANGMAI (Thailand) : *Consul :* S. S. Pande. *Address :* Consulate of India, No. 8 Soiz, Deo Navarath Rd., Chiangmai.

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Consul-General: Stephen E. Palmer, Jr. *Address:* Mount Rd., Madras 600006.

UPPER VOLTA: *Consul-General:* P. K. Bonerjee, *Address:* 186, Sarat Bose Rd., Calcutta 700026.

U.S.S.R.: *Consul-General:* N. V. Aksenov, *Address:* "Palm Beach", 42, Nepean Sea Rd., Bombay 400006.

Consul-General: Vacant. *Address:* 31, Shakespeare Sarani, Calcutta 700016.

Consul-General: A. I. Kharchenko. *Address:* 3rd Left St., Rly. Service Commission Rd., Madras 600006.

VIET NAM (Republic of): *Consul-General:* Nguyen Huy Dau. *Address:* 72, Sunder Nagar, New Delhi 110003.

YEMEN (People's Republic of). *Consul:* Saeed Mohamed Saeed Haitham. *Address:* 22, Hassan Manzil, Cuffe Parade, Bombay 400005.

YUGOSLAVIA (Federal Socialist Republic of): *Consul-General:* Dejan Popovic. *Address:* 120/4, Vaswani Mansion, D. Vachha Rd., Bombay 400020.

Consul-General: Mladen Berovic. *Address:* 6, Ballygunge Park Rd., Calcutta 700019.

U. N. & OTHER BODIES IN INDIA

UNITED NATIONS, 21, Kasturba Gandhi Marg, New Delhi 110001.

United Nations Development Programme (UNDP)

The United Nations Development Programme, is the world's largest multi-national source of pre-investment assistance and technical co-operation. It makes available to the developing nations the combined knowledge, expertise and experience of the United Nations family of agencies.

Resident Representative: John McDiarmid.

The World Food Programme, a joint organ of the UN and the FAO, aims at economic and social development through aid in the form of food. The resources of the Programme are derived from voluntary contributions in commodities, services and cash pledged by member States of the United Nations and members and associated members of FAO.

Representative, John McDiarmid.

United Nations Information Centre, 1, Barakhamba Rd., New Delhi 110001.

The United Nations Information Centre maintains a close working relationship with national and local information media, educational institutions, governmental information services and non-governmental organisations on matters relating to the dissemination of information about the United Nations and the specialized agencies.

Director: Rudolf Stajduhar.

United Nations High Commissioner for Refugees (U N H C R), 1, Ring Rd., Kilokri, New Delhi 110014.

UNHCR assists the Government of India in the formulation of projects, under the High Commissioner's 1969 Programme, for the settlement of Tibetan refugees in India.

Representative : Frederik L. Pijnacker Hordijk.

U. N. Children's Fund (UNICEF)

Address :—Regional Office for Afghanistan, Sri Lanka, India, Maldives, Nepal and Mongolia, UNICEF House, 11, Jorbagh, New Delhi-110003.

Zone Offices : Middle India Office, 105, Jorbagh, New Delhi 110003 ; *East India Office,* 26, Lee Rd., Calcutta 700020 ; *North India Office,* House No. 663, Sector 11-B, Chandigarh 160011 ; *South India Office,* Ex-Legislators' Hostel Annexe, Government House Estate, Mount Rd., Madras 600002; *Upper India Office,* B-7, L-Park, Mahanagar Extn., Lucknow 226006 ; *West India Office,* Ravindra Mansion, Dinshaw Vachha Rd., Bombay 400020.

UNICEF is currently assisting programmes in the fields of child health, nutrition, education, and welfare in 112 countries by putting voluntary contributions from 124 governments, donations from the public-at-large and the sale proceeds of UNICEF greeting cards to practical use.

UNICEF'S primary concern in India and other developing countries is the strengthening of national services for children and youth through long-range programmes e.g., providing equipment for primary health centres, developing rural water supply, improving nutrition through milk plants and applied nutrition projects, and stimulating science education and social services etc.

Regional Director of South Central Asia : Gordon Carter.

International Bank for Reconstruction and Development, 53, Lodi Estate, New Delhi 110003.

International Labour Organisation (Area Office), 7, Sardar Patel Marg, New Delhi 110021.

Estd. in 1928. It was reorganised, early in 1970, into an Area Office covering India, Sri Lanka, Nepal and the Maldive Islands. The Area Office maintains contacts and relations with governmental agencies, organisations and institutions in the region and workers' and employers' organisations. It explores the needs for technical assistance and assists in the preparation of projects within the ILO's fields of competency and in their implementation. It collects and disseminates information that is of interest to the region and/or to headquarters and relevant to ILO activities. The office also prospects candidates for ILO assignments abroad. It has a good reference library and undertakes the sale of ILO publications.

Director: A. D. Granger.

United Nations Educational, Scientific and Cultural Organisation : Office of the Chief of Mission in India, and the Field Science Office for South Asia, 40-B, Lodi Estate, New Delhi 110003.

Chief of Mission & Director, Field Science Office for South Asia : Dr. Devlet-Guirei Aslanbekovich Boutaev.

FAO of the United Nations, 1, Ring Rd., Kilokri, New Delhi 110014.

Senior Agricultural Adviser/FAO Country Representative in India : G. H. W. Hutton.

World Health Organization, Regional Office for South-East Asia : World Health House, Indraprastha Estate, Ring Rd., New Delhi 110001.

Regional Director : Dr. V. T. H. Gunaratne.

U.N. Military Observers Group in India and Pakistan, 1/AB, Purana Qila Rd., New Delhi 110001.

Afro-Asian Rural Reconstruction Organisation, C/117-118, Defence Colony, New Delhi 110003.

To launch concrete and wherever possible co-ordinated action to reconstruct the economy of the rural people of Afro-Asian countries and to revitalize their social and cultural life.

Membership : 28 African & Asian Countries.

President : Ghana ; *V. Presidents,* The Philippines & Arab Republic of Egypt ; *Secy. General :* Krishan Chand (India).

League of Arab States Mission, 62, Golf Links, New Delhi 110003.

Ag. Chief Representative and Head of Mission : Galal El-Rashidi.

FOREIGN TRADE COMMISSIONS IN INDIA

AUSTRALIA

R. T. Anderson, Commercial Counsellor and Trade Commissioner, 1/50 G. Shantipath, Chanakyapuri, New Delhi, 110021. K. Sarup, Marketing Officer, Australian Deputy High Commission, 9th Floor, Express Towers, Nariman Point, Bombay 400001 ; P. C. Narayanan, Marketing Officer, Australian Dy. High Commission, Brooke House, 9, Shakespeare Sarani, Calcutta 700016.

AUSTRIA

Austrian Trade Representative in India : Bombay Office : Consul-General (Hon.) : Dr. W. Konrad. The Beacon, Foreshore Rd., Bombay 400001. *Delhi Office :* Dr. G. Diezinger, 4 A, Bhagwandass Rd., New Delhi 110001.

BRITAIN

O. G. Forster, M.V.O. *Counsellor (Economic & Commercial).* British High Commission, Shantipath, Chanakyapuri, New Delhi 110024. A. C. Baker. First Secretary (Commercial). 1, Ho Chi Minh Sarani, Calcutta 700016. *Bombay :—* W. G. Peaston, Second Secretary (Commercial). Mercantile Bank Bldg., M. Gandhi Rd., Bombay 400001. J. H. Gilligan, First Secretary (Commercial). 150-A, Mount Rd., Madras 600002.

BULGARIA

Commercial Counsellor : 50, Golf Links Area, New Delhi 110003. *Trade Commissioner at Bombay :* 11, Peacock Palace, 69, Bhulabhai Desai Rd., Bombay 400026. *Trade Commissioner at Calcutta :* 6-A, Middleton St., Calcutta 700016.

CANADA

Counsellor (Development & Commercial) Canadian High Commission, Shantipath, Chanakyapuri, New Delhi 110021.

CZECHOSLOVAKIA

Economic & Commercial Counsellor & Trade Representative : 65, Golf Links Area, New Delhi 110003. *Trade*

Note : In the case of other countries trade matters are being looked after by the respective Embassies, High Commissions and Consulates-General.

Commissioner: Kasturi Bldgs., Jamshedji Tata Rd., Bombay 400020. *Trade Commissioner:* 24-B, Park St., Calcutta 700016. *Trade Commissioner:* 1/J, Nungambakkam High Rd., Madras 600034.

DENMARK

Trade Commission, Pallonji Mansion, New Cuffe Parade, Bombay 400005.

FRANCE

Commercial Counsellor to the French Embassy, 130, Jor Bagh, New Delhi 110003; Trade Commissioner, "Beacon," Foreshore Rd., Bombay 400001; Trade Commissioner, 13, Park Mansions, Park St., Calcutta 700016.

HUNGARY

Commercial Counsellor & Trade Representative: Dr. J. Markus, 18, Golf Links Area, New Delhi 110003. *Trade Commissioner:* L. Gergeby, 11-A, Wodehouse Rd., Bombay 400001. *Trade Commissioner:* Gyula Pozsgai, 6/2, Gurusaday Rd., Calcutta 700019.

ITALY

Trade Commissioner for Italy: M. Armento, Nirmal, 21st Flr., Nariman Point, Bombay 400001.

ROMANIA

Trade Representation of Socialist Republic of Romania in India, 61, Golf Links, New Delhi 110003; Steelcrete House, Dinshaw Vachha Rd., Bombay 400020; Nilhat House, 11, Rajendra Nath Mukherjee Rd., Calcutta 700001; 27, Khader Nawaz Khan Rd., Madras 600006.

SRI LANKA (CEYLON)

Trade Commissioner: Sri Lanka House, Bruce St., Bombay 400001.

U.S.S.R.

Trade Representation of U.S.S.R. in India, Plots Nos. 6 and 7, Block 50-E, Nyaya Marg, Chanakyapuri, New Delhi 110021; 1, Bishop Lefroy Rd., (Large Bldg.), Calcutta 700020; "Avantika," 46, Pedder Rd., Bombay 400026; *Showrooms of the U.S.S.R. Machinery and Equipment:* Vasundhara House, Bhulabhai Desai Rd., Bombay 400026; 50-A, St. Mary's Rd., Madras 600018.

YUGOSLAVIA

Trade Commissioner: Branko Radovic, Vaswani Mansion, D. Vachha Rd., Bombay 400020.

BANGLA DESH

CAPITAL: Dacca.

Area: 142,879·94 sq. kms. **Population:** 75 million.

Important Towns: (areas in sq. km.): Dacca—(556,712); Chittagong — (364,205); Khulna —(127,970).

Railways: (1966-67).

No. of passengers carried — 73,107,000.

Passenger miles run — 2,005 million.

Freight carried — 5,112,000 tonnes.

Religion-wise Break-up of Population According to 1961 Census: Muslims — 40,890,481; Caste Hindus — 4,386,623; Scheduled Castes — 4,993,046; Buddhists — 373,867; Christians — 148,903; Parsees — 193; Tribals & Others — 617,207.

Principal Dailies: *Awaz*, 32 Sharat Gupta Road, Dacca (Bengali). *Azad*, Dhakeshwari Road, Post Ramna (Bengali). *Ittefaq*, 1, Ramkrishna Mission Road, Dacca (Bengali). *Mail*, 2 Wyer St., Wari, Dacca (English). *Morning News*, (1) DIT Ave, Dacca (English). *Pargain*, 9 Gopi Kishan Lane, Dacca (Bengali). *Pasban*, 77 Motighul Commercial Area, Dacca (Urdu). *Sangbad*, 263 Bangshall Road, Dacca (Bengali). *Eastern Examiner*, Joypahar Lane, Chittagong (English). *Unity*, Sadarghat, Chittagong (English).

Roads: At the end of 1967 there were 3,456 kms. of surfaced roads.

Waterways: There are 8,038 km. of navigable waterways.

Chief Ports: Chittagong, Chaln and Khulna.

International Airports: Dacca, Chittagong.

Universities: of Chittagong, University Post Office, Chittagong; **of Dacca,** Ramna, Dacca; **Agricultural University,** P.O.B. Mymensingh; **University of Engineering and Technology,** Ramna, Dacca; **Jehangir Nagar Muslim University,** Savar, Dacca; **of Rajashahi,** Rajshahi.

EDUCATION

21·5 per cent of the total 1961 population is literate with Khulna district recording the highest literacy of 27·2 per cent, closely followed by Chittagong (26·4 per cent) and Dinajpur (25·9 per cent).

EVENTS THAT LED TO THE FORMATION OF BANGLA DESH

1969

Mar. 25:	Gen. Yahya Khan assumed power; imposed martial law throughout the country and dissolved the National and Provincial Assemblies.
Mar. 26:	Yahya Khan promised to transfer power to the people.
Mar. 27:	The Military Government cracked down on martial law violators. Awami League leader Sheikh Mujibur Rahman announced plans for a federal set-up.
Mar. 31:	Government banned all political activity.
Apr. 1:	Yahya Khan assumed Presidency.
Apr. 3:	A three-man military council of administration was formed to advise the President.
Nov. 28:	Yahya Khan fixed October 5, 1970, for elections to the National Assembly.

1970

Jan. 1:	Ban on political parties' activities was lifted.
Sept.	Elections were postponed until December 7 in view of floods in East Pakistan.
Dec. 7:	Elections to the National Assembly were held. Sheikh Mujibur Rahman's party, the Awami League, secured 167 seats out of the 169 reserved for East Pakistan. Z. A. Bhutto's People's Party came second.
Dec. 9:	Mujibur Rahman demanded that the Constitution be based on his party's six-point programme.

Dec. 17 : In Provincial Assembly elections, the Awami League won by an overwhelming majority in East Pakistan. Bhutto's party won a majority in two of four West Pakistan Assemblies.

Dec. 28 : Bhutto voiced disagreement with Mujibur Rahman's call for provincial autonomy.

Dec. 29 : Yahya Khan conceded the Sheikh's demand for holding National Assembly session in Dacca.

1971

Jan. 14 : Yahya Khan referred to the Sheikh as the country's future Prime Minister.

Jan. 29 : Constitutional talks between Rahman and Bhutto in Dacca floundered on autonomy issue.

Feb. 13 : Yahya Khan fixed March 3 for National Assembly session.

Feb. 15 : Bhutto threatened to boycott Assembly session if Rahman did not accommodate views of his party on Constitution-making.

Feb. 16 : Rahman was elected leader of the Awami League Legislature Party. Bhutto reportedly put forward proposal for separate Prime Ministers for the two wings.

Feb. 21 : Yahya Khan dissolved his Cabinet.

Feb. 28 : Bhutto sought postponement of National Assembly inauguration to facilitate talks between the Awami League and the People's Party.

Mar. 1 : Yahya Khan postponed Assembly session and sacked East Pakistan Governor, Vice-Admiral S. M. Ahsan. Rahman called for general strike in Dacca to protest against postponement of Assembly session.

Mar. 2 : Popular resentment erupted into violence in Dacca and some other places; troops moved into action and curfew was imposed.

Mar. 3 : Awami League launched peaceful non-co-operation movement. Rahman rejected Yahya Khan's invitation to a conference of political leaders on March 10.

Mar. 5 : Reports spoke of 300 persons killed in army action.

Mar. 6 : Yahya Khan convened National Assembly for March 25.

Mar. 7 : Rahman asked Government servants to take orders from him. East Pakistan Rifles men refused to shoot at Bengali demonstrators.

Mar. 8 : Civil disobedience movement was launched.

Mar. 14 : The Central Government issued ultimatum asking workers to return to work by March 15.

Mar. 15 : Rahman announced unilateral declaration of autonomy and issued 35 directives to East Pakistanis. Yahya Khan arrived in Dacca.

Mar. 19 : Yahya Khan and Rahman began first round of Constitutional talks.

Mar. 21 : Bhutto arrived in Dacca and conferred with Yahya Khan. Other leaders of West Pakistan parties in Dacca also conferred among themselves. Rahman had an unscheduled meeting with Yahya Khan.

Mar. 22 : Yahya Khan again postponed inauguration of National Assembly.

Mar. 25 : Awami League indicated constitutional talks were deadlocked while more killings were reported.

Mar. 26 : Genocide commenced. Mujib's whereabouts were not known since then.

Apr. 10 : Proclamation of Independence. The elected representatives constituted themselves into a Constituent Assembly. Bangla Desh was declared a Sovereign People's Republic.

Apr. 17 : The birth of the Sovereign Democratic Republic of Bangla Desh at Mujibnagar (150 kms. from Calcutta) by the acting President, Nazrul Islam.

Apr. 27 : The Bangla Desh Prime Minister, Tajuddin Ahmed, appealed to neighbouring countries to grant immediate recognition to Bangla Desh, to provide arms and to help a new-born country to set itself free from the clutches of a murderous army.

June 29 : President Yahya Khan appointed an expert committee to frame a Constitution for Pakistan.

July 16 : Senior officials and employees of former Pakistan Deputy High Commission at Calcutta refused to go back.

Aug. 4 : Fourteen Pakistani diplomats in Washington switched their allegiance to the Bangla Desh Government.

Aug. 10 : The semi-official newspaper "Al-Ahram" of UAR opposed Mujib's military trial. Senator Edward Kennedy visited refugee camps. The International Commission of Jurists protested against the secret military trial of Mujib.

Aug. 18 : India rejected Pakistani proposal for a U.N. good offices body.

Aug. 21 : The Pakistan Government ordered 59 Awami League National Assembly men to appear before Martial Law Administration.

Aug. 23 : Pakistan's bid for U.N. Council intervention in Bangla Desh foiled.

Aug. 30 : The Bangla Desh mission opened in Delhi; appeal for recognition.

Sept. 20 : Mukti Bahini commandos put out of commission the only ordnance factory in Bangla Desh at Gazipur, near Dacca.

Sept. 23 : Pakistani troops were compelled to desert 165 of the 220 border posts because of intensified attacks by freedom fighters.

Sept. 25 : The acting Bangla Desh President, Mr. Nazrul Islam, laid down four conditions for a settlement : (1) unconditional release of Sheikh Mujibur Rahman ; (2) recognition of Bangla Desh ; (3) withdrawal of the occupation forces from Bangla Desh and (4) adequate compensation for war damage caused by Pakistan.

Sept. 26 : Mr. Abu Sayeed Choudhury, former judge of the Dacca High Court and leader of the 14-member Bangla Desh delegation to the U.N. called upon members of the world body to recognise his country.

Sept. 28 : Speaking at a luncheon in honour of Mrs. Indira Gandhi, the Soviet Premier, Mr. Kosygin, urged President Yahya Khan to strive for a political settlement in Bangla Desh.

Sept. 30 : Mukti Bahini guerillas blew up the power supply station at Postogola in Dacca.

Oct. 4 : In one of the most wanton attacks Pakistani troops killed 100 residents of Alamdanga village in Chuadanga subdivision in reprisal for the murder of a Muslim League member.
The seniormost Bengali employee of the Pakistani High Commission in New Delhi, Mr. Humayun Rasheed Choudhury pledged his allegiance to Bangla Desh.

Oct. 5 : At the U.N., India firmly rejected a suggestion for bilateral talks between New Delhi and Islamabad, emphasising that the Bangla Desh problem was "entirely of its (Pakistan's) own making."

Oct. 10 : M. V. 'Nishan', one of the biggest ships of Pakistan, was sunk by the Mukti Bahini at Chittagong.

Oct. 11 : The passing-out parade of the first ever batch of Mukti Bahini officer-cadets was held in a liberated area.

Oct. 16 : The Mukti Bahini announced the formation of its first naval fleet with five motorboats captured from Pakistanis.

Oct. 21 : Ceylon banned the use of its airports and ports for transport of Pakistani military personnel and hardware to Bangla Desh.

Oct. 30 : The acting Bangla Desh President, Mr. Nazrul Islam, announced the formation of the air wing of the Mukti Bahini.

Nov. 2 : Forty-three Bengali employees of the Pakistani High Commission in New Delhi and members of their families were thrown out of the chancery building after being beaten up by Pakistani staff.

Nov. 6 : The Bangla Desh Government announced that 4,500 Pakistani troops and para-military men had been killed in October.

Nov. 15 : Chalna and Khulna ports closed to shipping in view of guerilla activities.

Nov. 17 : Pakistani troops razed to the ground the entire Shekharnagar town, causing heavy casualties. The military junta unleashed a new reign of terror in Dacca. About 1,000 persons were killed and several thousands arrested after curfew was imposed.
Mukti Bahini men shot down a Pakistani plane near Cox's Bazar.

Nov. 20 : Pakistan whipped up war hysteria and intensified shelling of Indian border areas in the eastern sector.

Nov. 21 : Thirteen Pakistani Chaffee tanks destroyed by Indian forces in a bid to halt an armoured Pakistani thrust from the Jessore sector. Three of four Pakistani Sabres which intruded into Indian territory in the Boyra sector were shot down. Eight Indians killed in Pakistani shelling in the Karimganj (Assam) area.

Nov. 24 : The freedom fighters encircled four towns — — Sylhet, Jessore, Kishorganj and Radhanagar.

Nov. 25 : President Yahya Khan threatened to launch a war against India "within 10 days."

Nov. 26 : Indian troops crossed into Bangla Desh for the second time in self-defence and destroyed one more Pakistani tank in the hilly area. Eight Pakistani soldiers were killed or wounded.

Nov. 28 : Three more Pakistani tanks were destroyed in the hilly area.
President Yahya Khan called for the posting of U.N. observers to check alleged border violations by Indian forces.
In a speech at Jaipur, Mrs. Indira Gandhi said that no justice could be expected from the U.N. Security Council.

Nov. 30 : In the face of mounting guerilla attacks, Pakistani troops wiped out several villages on the outskirts of Dacca, killing at least 300 persons.

Dec. 2 : The Bangla Desh Government announced that civil administration had been extended to 23,000 sq. km. of the liberated area of 54,000 sq. km.
The Mukti Bahini, after capturing several strategic towns, including Radhanagar, 55 km. from Sylhet, overran the Pakistani post at Kamalpur in Mymensingh district.

Dec. 3 : Pakistan declares a state of war with India. The Indian army ordered into action. Naval blockade also ordered.

(For chronology hereafter see chapter on Events of the year—1972 Directory.)

POLITICAL PARTIES

Arya Sabha, Akhil Bharatiya, Pilibhit, Uttar Pradesh.

Awami League, Indian, 21, Ripon St., Calcutta-700016, West Bengal.

Backward Classes Party of India, Bahujan Vihar, Mandiri, Patna-800001, Bihar.

Bhumi Rakshak Party, Chotanagpur, New Police Line, Ranchi, Bihar.

Bolshevik Party of India, 64, Chittaranjan Ave., Calcutta-700012, West Bengal.

Communist Party, Bharater Biplabi, Central Office, 84, A. Mukherji Rd., Calcutta-700025, West Bengal.

Communist Party of India, 7/4, A. Ali Rd., New Delhi.

Communist Party of India (Marxist), Central Committee Office, 49, Lake Place, Calcutta-700019, West Bengal.

Communist Party of India, Krantikari, P.O. Kotah, Dt. Shahabad, Bihar.

Communist Party of India, Revolutionary, 5/1, Rammoy Rd., Calcutta-700025, West Bengal.

Congress, Bangla, 2, B. Bose Rd., Calcutta-700026, West Bengal.

Congress, Bharatiya Rashtriya Jan, Satya Ashram, Butlar Marg, Lucknow, Uttar Pradesh.

Congress, Biplabi Bangla, 117/B, Syama Prasad Mukherjee Rd., Calcutta-700026, West Bengal.

Congress, Indian National, 5, Dr. R. Prasad Rd., New Delhi.

Congress (O), Indian National, 7, J. Mantar Rd., New Delhi-110001.

Congress, Kerala, Kottayam, Kerala.

Congress, Lok Tantrik, Chhajubagh, Patna, Bihar.

Congress, Orissa Jana, Bhubaneswar-751001, Orissa.

Congress, Samajvadi, Gorakhpur, Uttar Pradesh.

Congress, Telengana, 6-1-2/1, Jaladrussyam, Secretariat Rd., Hyderabad, Andhra Pradesh, 500001.

Congress, Tripura, C/o Nagarik Patrika Office, Agartala, Tripura.

Congress, Utkal, Swaraj Ashram, Cuttack, Orissa.

Democratic Front, Indian National, 37 & 39, Dr. S. Mohan Ave., Calcutta-700014, West Bengal.

Dravida Munnetra Kazhagam, Arivagam, Royapuram, Madras-600013.

Forward Bloc, All India, 88, North Ave., New Delhi-110001.

Forward Bloc, Marxist, 102/1, Beliaghata Main Rd., Calcutta-700010, West Bengal.

Gomantak, Maharashtrawadi, Panaji, Goa.

Gorkha League, All India, Ledenla Rd., Darjeeling, West Bengal.

Hindu Mahasabha, Akhil Bharat, Mahasabha Bhavan, Mandir Marg, New Delhi.

Janata Party, Ramgarh House, Patna-800012, Bihar.

Janata Paksha Party, No. 1, 7th Cross, Cubbonpet, Bangalore-560002, Mysore.

Jan Sangh, Bharatiya, Vithalbhai Patel Bhuvan, New Delhi.

Jharkhand, Bihar Prant Hul, Central Office, Main Rd., Dumka, Santhal Parganas Dt., Bihar.

Jharkhand Party, All India, 3, Strand Rd., Patna, Bihar.

Kishan Mazdoor Party, Uttar Pradesh, Kakra House, 2, Dilkusha Rd., Lucknow, Uttar Pradesh.

Kranti Dal, Bharatiya, Room No, 1 & 3, V. P. House, Rafi Marg, New Delhi.

Krishak Samaj, Paschim Banga, 35/1B, Huzuri Mull Lane, Calcutta-700014, West Bengal.

Labour Party, All India, Lord Krishna Bldg., 1st Fl., Mandi Rd., Jullundur, Punjab.

Lok Dal, 127A, Park St., Calcutta-700017, West Bengal.

Lok Raj Party, Himachal Pradesh, Saran Lodge, Lakkar Bazar, Solan, Himachal Pradesh.

Lok Sevak Dal, Bungalow No. 40 & 45, Bhopal, Madhya Pradesh.

Lok Sevak Sangha, P.O. Purulia, West Bengal.

Mahasabha, Backward Classes, Vomulawada, Karim Nagar District, Andhra Pradesh.

Masihi Sabha, Punjab, Lal Kothi, Near City Light Cinema, G. Trunk Rd., Amritsar, Punjab.

Minorities Federation, Muslims and other, 21, Ripon St., Calcutta-700016, West Bengal.

Minorities Labour Party, 43, Bashir Bagh Road, Hyderabad, Andhra Pradesh.

Minorities League, 26, Taetala Lane, Calcutta-700016, West Bengal.

Muslim League, Indian Union, M. Azad Rd., Kozhikode-673001, Kerala.

Muslim Majlis, Uttar Pradesh, Sultan Manzir, Takia Pir Jalil, Lucknow, Uttar Pradesh.

Nationalist Organisation, Nagaland, Kohima, Nagaland.

Parishad, Akhil Bhartiya Ramrajya, Nigambodh Ghat, Delhi-110006.

Parishad, Bharatiya Krantikari, Zamir Bldg., Nainital Rd., Bareilly, Uttar Pradesh.

Parishad, Mazdoor, 10-A, Capper Rd., Lal Bagh, Lucknow, Uttar Pradesh.

Parishad, Vedwadi Karmawadi, 480, Kumharmandi, Kanpur Cantt. 208004, Uttar Pradesh.

Peasants and Workers Party, Central Office, M. Phule Rd., Naigaum, Bombay-400014.

Peoples' Front, 7, N. S. V. Mudaliar St., Pondicherry.

Peoples' Party, Manipur, Hotel Diplomate, Vir Tikerdrajit Rd., Imphal, Manipur.

Proutist Bloc India, 13, Ferozeshah Rd., New Delhi.

Rashtriya Samajwadi Loktantrik Dal, Akhil Bharatiya, 150, Navea Ganeshganj, Lucknow, Uttar Pradesh.

Republican Party of India, Deeksha Bhoomi, Nagpur-440003, Maharashtra.

Republican Party of India (Ambedkarite), Nakodar Rd., Jullundur, Punjab.

Shiv Sena, 771, Ranade Rd., Bombay-400028.

Shiromani Akali, Dal, Amritsar, Punjab.

Shiromani Baba Jiwan, All India, Singh Mazahbi Dal, Majitha, Punjab.

Shoshit Dal, Bihar, 109, MLA Flat, Gardiner Rd., Patna-800001, Bihar.

Shoshit Dal, Hindustani, Naya Kadamkuan, Patna-800003, Bihar.

Sikh Pratinidh Board, Uttar Pradesh, Gurdwara Rd., Lucknow, Uttar Pradesh.

Socialist Democratic Party, Nationalist, Singjamei Bazar, Imphal, Manipur.

Socialist Party, 16, Vithalbhai Patel House, Rafi Marg, New Delhi-400001.

Socialist Party, Kerala Samyukta, M. P. Rd., Kozhikode-673001, Kerala.

Socialist Party, Revolutionary, 37, Ripon St., Calcutta-700016, West Bengal.

Socialist Party of India, Revolutionary (Marxist Leninist), 113, Pandariba, Allahabad, Uttar Pradesh.

Socialist Unity Centre of India, 48, Dharamtola St., 1st Fl., Calcutta-700013, West Bengal.

Sudharvadi Party, Bihar Prantiya, Dharhara Kothi, J. Narain Rd., Kadamkuan, Patna-800003, Bihar.

Swatantra Party, Sassoon Bldg., 143, M. Gandhi Rd., Bombay-400001.

Swatantra Sangram, Uttar Pradesh, Sainik Parishad, 60, Tirminiganj, Lucknow, Uttar Pradesh.

United Front of Nagaland, Burma Camp, Kohima, Nagaland.

United Goans (Sequeira Group), Campal, Panaji, Goa.

Upajati Zuba Samity, Tripura, C/o Buddha Deb Barma, P.O. Abhoynagar, Agartala, Tripura.

Vishal Haryana Party, Rampur-Rewari, Gurgaon Dt., Haryana.

Workers Party of India, 13, Surya Sen St., Calcutta-700012, West Bengal.

GENERAL ELECTION

PARLIAMENT & ASSEMBLIES

As a Sovereign Democratic Republic, India has a bicameral Legislature — The Rajya Sabha (Council of States) and Lok Sabha (The House of Commons). The President heads both.

Rajya Sabha: No. of seats: 250; Nominated by President: 12; Requirements for election: Citizenship of India and over 30 years of age; Not subject to dissolution; One third members retire every three years. Members indirectly elected through State legislatures.

FIFTH LOK SABHA POLL

The Fourth Lok Sabha was dissolved on Dec. 27, 1970, 14 months before its full term. This premature dissolution was the first in India's history.

The election programme for 1971 was as follows with dates, States and number of seats:

March 1: Assam—7, Bihar—22, Gujarat—12, Madhya Pradesh—22, Maharashtra—15, Nagaland—1, Rajasthan—22, Tamil Nadu—13, Uttar Pradesh—64, Andaman and Nicobar Islands—1 and Manipur—1.

March 2: Himachal Pradesh—4, and Nagaland—1.

March 3: Bihar—13, Nagaland—1 and Uttar Pradesh—59.

March 4: Assam—7, Gujarat—12, Jammu and Kashmir—3, Madhya Pradesh—15, Maharashtra—13, Mysore—13, Nagaland—1, Rajasthan—23, Tamil Nadu—13, Goa—2, Manipur—1, and Pondicherry—1.

March 5: Andhra—41, Bihar—20, Himachal Pradesh—2, Nagaland—1, Orissa—20, Punjab—13, Haryana—9, Uttar Pradesh—55, Chandigarh—1, Dadra and Nagar Haveli—1, and Delhi—7.

March 6: Jammu and Kashmir—1, Kerala—10, Maharashtra—17 (including five Greater Bombay seats), Nagaland—1, and Rajasthan—21.

March 7: Jammu and Kashmir—2, Mysore—14, Tamil Nadu—13, Manipur—1, and Tripura—2.

March 9: Kerala—9.

March 10: West Bengal—40.

April 18: Nagpur.

May 16: Mandi.

June 6: Ladakh.

Weight of Ballot Papers: Ballot papers printed for the elections weighed in all 862 tonnes.

No. of Polling Stations: There were 342,980 polling stations — an increase of 75,425 over the 1967 general election.

Personnel Engaged: A total of nearly 1·36 million personnel were engaged for the elections.

Cost of Poll: The poll cost Rs. 150 million — 200 per cent more than the expenditure incurred in the 1967 general election.

Increase in Electorate: The electorate increased in 1970 by 20,855,185. In 1967 it was 250,591,106 and in 1971 it became 271,446,291.

Women Voters: In the first general election in 1952, only 28,132,000 (37·1 per cent) out of the 77,286,000 women voters went to the polling booths.

But, 51,128,000 out of the 94,461,000 men voters exercised their franchise, constituting 55 per cent.

In the 1967 general election, 66,264,000 out of the 119,434,000 women voters and 86,460,000 out of the

LOK SABHA GENERAL ELECTIONS — PARTY POSITION

Party	First General Election 25–10–1951 to 5–1952		Second General Election 24–2–1957 to 9–6–1957		Third General Election 16–2–1962 to 6–5–1962		Fourth General Election 15–2–1967 to 28–2–1967		Fifth General Election 1–3–1971 to 13–3–1971	
	Seats Contested	Seats Won	Seats Contested	Seats Won	Seats Contested	Seats Won	Seats Contested	Seats Won	Seats Contested	Seats Won
Congress	469	354	483	366	485	358	452	280	410	350
PSP	400	20	175	18	168	12	110	13	60	2
CPI	69	26	115	29	137	29	101	23	71	23
Jan Sangh	91	3	103	4	196	14	235	36	162	22
Others (Ind.) ..	946	83	580	71	716	44	670	44	726	43
Swatantra ..	—	—	—	—	173	18	177	42	60	8
Republican ..	—	—	—	—	68	3	66	1	46	—
CPI (M)	—	—	—	—	—	—	57	19	50	25
SSP	—	—	—	—	—	—	119	23	89	3
Akali Dal	—	—	—	—	—	—	—	—	13	1
V.H.P.	—	—	—	—	—	—	—	—	3	—
Congress (O) ..	—	—	—	—	—	—	—	—	205	16
Muslim League ..	—	—	—	—	—	—	—	—	10	3

129,569,000 men voters registered their votes — 55·5 per cent and 66·7 per cent respectively.

While there was a sharp rise of 18·4 per cent in the number of women voters between 1952 to 1967, the increase in the case of men voters was only 11·7 per cent during this period.

The gap in the percentage of votes polled by men and women in 1952 was 17·9. This narrowed down in the subsequent general elections — 15·5 in 1962 and 11·2 in 1967.

This gap decreased further in the 1971 election when 81 million women voters cast their votes.

Lok Sabha Speakers : 1. G. V. Mavlankar 1952-56; 2. M. Ananthasayanam Ayyangar 1956-62; 3. Hukam Singh 1962-67; 4. N. Sanjiva Reddy 1967-69; 5. G. S. Dhillon 1969-71 and 1971.

1972 ASSEMBLY ELECTIONS

Election Dates : March 5 to March 11.

Places where elections were held : In 16 States — Andhra Pradesh, Assam, Bihar, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mysore, Punjab, Rajasthan, West Bengal and Tripura.

One Union Territory : Goa, Daman and Diu.

One Metropolitan Council : New Delhi.

No. of Seats Contested : 2,727.

Electorate : 195,238,528.

No. of Candidates : 11,938.

No. of Polling Stations : 269,068.

People Employed for Elections : About 1·4 million.

No. of Ballot Boxes : 807,204.

Party-wise Break-up of Candidates : Indian National Congress — 2,526; Indian National Congress (O) — 871; Swatantra Party — 296; Bharatiya Jan Sangh — 1,226; Communist Party of India — 325; Communist Party of India (Marxists) — 457; Socialist Party — 656. (This list does not include the candidates who stood as independents or those who were put up by regional parties.)

Parties and Symbols : Indian National Congress (Cow and Calf); Indian National Congress (Organisation) (Woman Plying Charkha); Swatantra Party (Star); Jana Sangh (Oil Lamp); Communist Party of India (Ears of Corn and Sickle); Socialist Party (Tree); Communist Party (Marxist) (Hammer, Sickle and Star).

State Parties : Shiromani Akali Dal (Scales); Shiromani Akali Dal (Gurnam Singh Group) (Bow and Arrow); Vishal Haryana Party (Rising Sun); Akhil Bharatiya Arya Sangh — Haryana (Swastika in a circle); Jammu and Kashmir National Conference (Plough); Republican Party of India (Elephant); Peasants and Workers Party (Cart); Manipur People's Party (Bicycle); All Party Hill Leaders Conference (Flower); Janata Paksha (Scales); Tripura Congress (Plough); Maharashtrawadi Gomantak Party (Lion); United Goans Sequeira Group (Human Hand).

States with Bi-Cameral Legislatures: Following are the States which have an Assembly and a Legislative Council. All the other States have only a Legislative Assembly. Andhra Pradesh; Bihar; Madhya Pradesh; Maharashtra; Mysore; Tamil Nadu; and Uttar Pradesh.

Composition of Assembly : An Assembly should have not more than 500 and not less than 60 members.

Legislative Council : The strength of the Council should be one third of the total membership of the Assembly but not less than 40.

Election to Councils : *One third* of its members are elected by the Municipalities, district boards and other local authorities; *One twelfth* by the graduates of the universities of the territory; *One twelfth* by the teachers of institutions not lower than secondary school; *One third* by members of the Legislative Assembly and, the remaining few are nominated by the Governor of the State.

RAJYA SABHA

Chairman : G. S. Pathak; *Deputy Chairman :* Godey Murahari; *Secretary :* B. N. Banerjee; *Joint Secretary :* S. S. Bhalerao.

Total No. of Seats : 243.

An estimate of party position in the Rajya Sabha is: Congress : *121; Congress (O) : 19; Jana Sangh : 15; D.M.K. : 12; C.P.I. : 11; Swatantra : 9; C.P.I. (M) : 7; S.P. : 3; S.P.L. : 3; Muslim League : 5; B.K.D. : 4; Akali Dal : 2; Forward Block (M) : 1; Republican : 1; R.S.P. : 1; A.P.H.L.C. : 1; P.S.P. : 1; S.M.S. : 1; M.P P. : 1; Independents : 14; Nominated by the President : 12 (including 2 Members who have joined Congress Party); Vacant : 1; No. of woman members : 18.

ANDHRA PRADESH—18

Janardhana Reddy (Cong.); A. S. Chowdhuri (Ind.); Nuthalapati Joseph (Cong.); Papi Reddi (Ind.); V. B. Raju (Cong.); Kota Punnaiah (Cong.); Venigalla Satyanarayana (Cong.); M. Anandam (Cong.); Qasim Ali Abid (Cong.); Chandramouli Jagarlamudi (Swa.); Gaddam Narayana Reddy (Cong.); M. Srinivasa Reddy (Cong.); K. L. N. Prasad (Cong.); Smt. Rathnabai Sreenivasa Rao (Cong.); Katragadda Srinivasa Rao (Ind.); K. V. Raghunatha Reddy (Cong.); M. R. Krishna (Cong.); Sanda Narayanappa (Cong.).

ASSAM—7

Nripati Ranjan Chowdhury (Cong.); Bijoy Chandra Bhagavati (Cong.); Nabin Chandra Buragohain (Cong.); Golap Barbora (S.P.); Bipinpal Das (Cong.); Emonsing M. Sangma (Cong.); D. K. Barooah (Cong.).

BIHAR—22

Suraj Prasad (C.P.I.); Kamalnath Jha (Cong.); D. P. Singh (Cong.); Mrs. Aziza Imam (Cong.); Bindeshwari Prasad Singh (Cong.); Gunanand Thakur (Cong.); Shyamlal Gupta (Cong. O); Bhupendra Narayan Mandal (S.P.L.); Mahabir Dass (Cong.); Yogendra Sharma (C.P.I.); Shishir Kumar (P.S.P.); Dharam Chand Jain (Cong.); Jagdambi Prasad Yadav (J.S.); Bhaiya Ram Munda (Cong.); Smt. Jahanara Jaipal Singh (Cong.); Bhola Prasad (C.P.I.); Bhola Paswan Shashtri (Cong.); Sitaram Kesri (Cong.); Rajendra Kumar Poddar (Ind.); Sitaram Singh (S.P.L.); Awadheshwar Prasad Sinha (Cong.); Smt. Pratibha Singh (Cong.).

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* Excluding 2 Nominated Members who have joined the Congress Party.

GUJARAT—11

Yogendra Makwana (Cong.); Smt. Sumitra G. Kulkarni (Cong.); D. K. Patel (J.S.); Dahyabhai V. Patel (Swa.); Himmat Sinh (Cong.); U. N. Mahida (Cong.); Ibrahimbhai Kasambhai Kalania (Cong.); Jaisukhlal Hathi (Cong.); H. M. Trivedi (Cong.); Tribhovandas Kisibhai Patel (Cong. O); Manubhai Shah (Cong.).

HARYANA—5

D. D. Puri (Cong.); Ranbir Singh (Cong.); Bhagwat Dayal (Cong. O); Krishan Kant (Cong.); Sultan Singh (Cong.).

HIMACHAL PRADESH—3

Roshan Lal (Cong.); Jagan Nath Bhardwaj (Cong.); Smt. Satyavati Dang (Cong.).

JAMMU AND KASHMIR—5

Om Mehta (Cong.); Gulam Nabi Untoo (Cong.); Syed Hussain (Cong.); Tirath Ram Amla (Cong.); D. P. Dhar (Cong.).

KERALA—9

Hamid Ali Schamnad (M.L.); Balachandra Menon (C.P.I.); Narayana Kalliyana Krishnan (C.P.I.); K. P. Subramania Menon (C.P.I.(M)); G. Gopinathan Nair (R.S.P.); B. V. Abdulla Koya (M.L.); Dr. K. Mathew Kurian (C.P.I.(M)); K. Chandrasekharan (S.P.); S. Kumaran (C.P.I.).

MADHYA PRADESH—16

S. C. Angre (J.S.); Syed Ahmad (Cong.); Pt. Bhawaniprasad Tiwary (Cong.); Smt. Vidyawati Chaturvedi (Cong.); Narayan Prasad Chaudhari (Cong.); Mahendra Bahadur Singh (Cong.); Balram Das (Cong.); Vijaya Bhushan Deosharan (J.S.); N. K. Shejwalkar (J.S.); Ram Sahai (Cong. O); Smt. Shyamkumari Devi (Cong.); Chakrapani Shukla (Cong.); Swai Singh Sisodia (Cong.); Shankarlal Tiwari (Cong.); Nand Kishore Bhatt (Cong.); Virendra Kumar Sakhlecha (J.S.).

MAHARASHTRA—19

Narayan Ganesh Goray (S.P.); Dr. (Kumari) Sarojni Krishnarao Babar (Cong.); Bidesh Tukaram Kulkarni (Cong.); Babubhai M. Chinai (Ind.); Miss Saroj Purshottam Khaparde (Cong.); Tryambak Gopal Deshmukh (Cong.); Sikander Ali Wajd (Cong.); Vithal Gadgil (Cong.); N. H. Kumbhare (Rep.); Arvind Ganesh Kulkarni (Cong.); Pandharinath Sitaramji Patil (Cong.); Smt. Sushila Shankar Adivarekar (Cong.); Gulabrao Raghunathrao Patil (Cong.); Shankarrao Bajirao Bobdey (Cong.); Jayant Shridhar Tilak (S.M.S.); Shriniwas Ganesh Sardesai (C.P.I.); D. Y. Pawar (B.K.D.); Vinaykumar Ramlal Parashar (Cong.); Dr. M. R. Vyas (Cong.).

MANIPUR—1

Salam Tombi (M.P.P.).

MEGHALAYA—1

Showaless K. Shilla (APHLC).

MYSORE—12

Veerendra Patil (Cong. O); Malappa Lingappa Kollur (Cong.); Dr. K. Nagappa Alva (Cong. O); Mulka Govinda Reddy (Cong.); Patil Puttapa (Cong. O); T. A. Pai (Cong.); B. T. Kemparaj (Cong.); U. K. Lakshmana Gowda (Ind.); Maqsood Ali Khan (Cong.); K. S. Malle Gowda (Ind.); B. P. Nagaraja Murthy (Cong. O); H. S. Narasiah (Cong.).

NAGALAND—1

Melhupra Vero (Cong.).

ORISSA—10

Brahmananda Panda (Cong.); Binoy Kumar Mahanti (Cong.); Chaitanya Prasad Majhi (Cong.); Bira Kesari Deo (Swa.); K. P. Singh Deo (Swa.); Krishna Chandra Panda (Swa.); Debananda Amat (Ind.); Loknath Misra (Swa.); Sundarmani Patel (Swa.); Smt. Saraswati Pradhan (Cong.).

PUNJAB—7

Mohan Singh (Cong.); Rattan Lal Jain (J.S.); Bhupinder Singh (Ak. Dal); Sardar Gurcharan Singh Tohra (Ak. Dal); Smt. Sita Devi (Cong.); Inder Kumar Gujral (Cong.); Gurmukh Singh Musafir (Cong.).

RAJASTHAN—10

M. K. Mohta (Swa.); Smt. Lakshmi Kumari Chundawat (Cong.); Jagdish Prasad Mathur (J.S.); Jamna Lal Berwa (Cong.); Smt. Narayanidevi Manaklal Varma (Cong.); Mohammed Usman Arif (Cong.); Ram Niwas Mirdha (Cong.); Kumbha Ram Arya (Ind.); Bal Krishna Kaul (Cong. O); Ganesh Lal Mali (Cong.).

TAMIL NADU—18

A. K. Refaye (M.L.); T. K. Srinivasan (D.M.K.); K. A. Krishnaswamy (D.M.K.); Kanchi Kalyanasundaram (D.M.K.); G. A. Appan (D.M.K.); M. Kamalanathan (D.M.K.); M. Ruthnaswamy (Swa.); S. S. Mariswamy (D.M.K.); M. R. Venkataraman (C.P.I.(M)); M. C. Balan (A.D.M.K.); S. S. Rajendran (D.M.K.); T. V. Anandan (Cong. O); M. S. Abdul Khader (D.M.K.); V. V. Swaminathan (D.M.K.); A. K. A. Abdul Samad (M.L.); K. S. Ramaswamy (Cong.); Thillai Villalan (D.M.K.); S. A. Khaja Mohideen (M.L.).

TRIPURA—1

Dr. Triguna Sen (Cong.).

UTTAR PRADESH—34

Banarsi Das (Cong. O); Dattopant Thengari (J.S.); Ganesh Lal Chaudhary (Cong. O); Sukhdev Prasad (Cong.); Ajit Prasad Jain (Cong.); C. D. Pande (Cong. O); Pitamber Das (J.S.); Yashpal Kapur (Cong.); Nawal Kishore (Cong. O); Mahavir Tyagi (Cong. O); Harsh Deo Malaviya (Cong.); Prof. S. Nurul Hasan (Cong.); Triloki Singh (Cong.); Prem Mahohar (J.S.); Anand Narain Mulla (Cong.); Sitaram Jaipuria (Ind.); Mohan Singh Oberoi (B.K.D.); Nageshwar Prasad Shahi (S.P.L.); Kalyan Chand (Cong.); T. N. Singh (Cong. O); Uma Shankar Dikshit (Cong.); Chandra Shekhar (Cong.); Prithwinath (B.K.D.); Man Singh Varma (J.S.); Dr. V. B. Singh (Cong.); Dr. Z. A. Ahmad (C.P.I.); Godey Murahari (Ind.); Omprakash Tyagi (J.S.); M. Asad Madani (Cong.); Shyam Lal Yadav (B.K.D.); Mahabir Prasad Shukla (Cong.); Inder Singh (Cong.); V. R. Mohan (Ind.); Shyam Dhar Misra (Cong. O).

WEST BENGAL—16

Sasankasekhar Sanyal (C.P.I.(M)); Suhrid Mullick Choudhury (F.B.(M)); Sardar Amjad Ali (Cong.); Dr. Rajat Kumar Chakrabarti (Cong.); Krishna Bahadur Chettri (Cong.); Dwijendralal Sen Gupta (Ind.); Bhupesh Gupta (C.P.I.); Kalyan Roy (C.P.I.); Dr. Debiprasad Chattopadhayaya (Cong.); Kali Mukherjee (Cong.); Smt. Purabi Mukhopadhyay (Cong.); Salil Kumar Ganguli (C.P.I.(M)); Niren Ghosh (C.P.I.(M)); Sanat Kumar Raha (C.P.I.); Pranab Kumar Mukherjee (Cong.); Monoranjan Roy (C.P.I.(M)).

ARUNACHAL PRADESH—1

Todak Basar (Ind.).

DELHI—3

Dr. Bhai Mahavir (J.S.); Smt. Savita Behen (Cong.); Lal K. Advani (J.S.).

MIZORAM—1

Lalbuaia (Ind.).

PONDICHERRY—1

S. Sivaprakasam (D.M.K.).

NOMINATED BY THE PRESIDENT—12

Prof. Rasheeduddin Khan (Ind.); Chandra Kisan Daphtary (Ind.); Umashankar Joshi (Ind.); Jairamdas Daulatram (Ind.); Pramatha Nath Bisi (Ind.); Dr. K. Ramiah (Ind.); Smt. Maragatham Chandrasekhar (Cong.); Ganga Sharan Sinha (Ind.); Habib Tanvir (Ind.); Abu Abraham (Ind.); Joachim Alva (Cong.); Dr. V. P. Dutt (Ind.).

LOK SABHA

Speaker : Dr. Gurdial Singh Dhillon.

Dy. Speaker : G. G. Swell.

Maximum No. of seats according to the Constitution 525 (500 States + 25 Union Territories); Presidential appointments : 2 if Anglo-Indian Community not properly represented; Term : 5 years from the day of first sitting.

Present Strength 524.

Party Position :—Congress 355; Communists Marxists 25; Communists 22; Dravida Munnetra Kazhagam 20; Anna D.M.K. 2; Jan Sangh 22; Congress (O) 13; Telengana Praja Samiti 2; Swatantra 7; Samyukta Socialist Party 6; Revolutionary Socialist Party 3; Kerala Conggress 3; Muslim League 3; Forward Bloc 2; Independents 25; Others 10; Vacant 5; No. of woman members : 22.

Reserved Seats : Scheduled Castes 77; Scheduled Tribes 41.

ANDHRA PRADESH—41

P. Ganga Reddy (Cong.), (*Adilabad*); B. S. Murthy (Con.), (*Amalapuram—S.C.*); S. R. A. S. Appala Naidu (Cong.), (*Anakapalli*); P. Anthony Reddy (Cong.), (*Ananthapur*); Mrs. B. Radhabhai Ananda Rao (Cong.), (*Bhadrachalam—S.T.*); K. Narayana Rao (Cong.), (*Bobilli*); P. Narasimha Reddy (Cong.), (*Chittoor*); Y. Eswara Reddy (C.P.I.), (*Cuddapah*); K. Suryanarayana (Cong.), (*Eluru*); M. Ankineedu (Cong.), (*Gudivada*); K. Raghuramaiah (Cong.), (*Guntur*); P. Bayappa Reddy (Cong.), (*Hindupur*); G. S. Melkote (Cong.), (*Hyderabad*); M. S. Sanjeevi Rao (Cong.), (*Kakinada*); M. Satyanarayanarao (OP-TPS), (*Karimnagar*); P. Venkata Reddy (Cong.), (*Kavali*); Mrs. T. Lakshmi Kanthamma (Cong.), (*Khammam*); K. Kodandarami Reddy (Cong.), (*Kurnool*).

J. Rameswar Rao (Cong.), (*Mahbubnagar*); M. Nageswara Rao (Cong.), (*Machilipatnam*); Mallikarjun (Cong.), (*Medak*); M. Bhishma Dev (Cong.), (*Nagarkurnool—S.C.*); K. Ramakrishna Reddy (Cong.), (*Nalgonda*); P. Venkatasubbhaiah (Cong.), (*Nandyal*); M. T. Raju (Cong.), (*Narasapur*); M. Sudarsanam (Cong.), (*Narasaraopet*); D. Kamakshaiah (Cong.), (*Nellore—S.C.*); B. Narasimha Reddy (C.P.I.-M.), (*Niryalguda*); M. Ramagopal Reddy (Cong.), (*Nizamabad*); Ankinedu Prasada Rao (Cong.), (*Ongole*); B. Satyanarayana (Cong.), (*Parvatipuram—S.T.*); V. Tulasi Ram (Cong.), (*Peddapalli—S.C.*); S. B. P. Pattabhiramarao (Cong.), (*Rajahmundry*); P. Parthasarathy (Cong.), (*Rajampet*); M. M. Hashim (Cong.), (*Secunderabad*); G. Venkataswamy (Cong.), (*Saddipet—S.C.*); B. Rajagopal Rao (Cong.), (*Srikakulam*); T. Balakrishnaiah (Cong.), (*Tirupathi—S.C.*); Dr. K. L. Rao (Cong.), (*Vijayawada*); P. V. G. Raju (Cong.), (*Vishakapatnam*); S. B. Giri (OP—T.P.S.), (*Warangal*).

ASSAM—14

Fakhruddin Ali Ahmed (Cong.), (*Barpeta*); Mrs. Jyotsna Chanda (Cong.), (*Cachar*); Biren Engti, (*Diphu—S.T.*); Moinul Haque Chowdhury (Cong.), (*Dhubri*); Robin Kakoti (Cong.), (*Dibrugarh*); Dinesh Chandra Goswami (Cong.), (*Gauhati*); Tarun Gogoi (Cong.), (*Jorhat*); Bedabrata Barua (Cong.), (*Kaliabor*); Nihar Ranjan Laskar (Cong.), (*Karimganj — S.C.*); Dharanidhar Busumatari (Cong.), (*Kokrajhar—S.T.*); Biswanarayan Shastri (Cong.), (*Lakhimpur*); Dharanidhar Das (Cong.), (*Mangalddai*); Liladhar Kotoki (Cong.), (*Nowgong*); Kamala Prasad (Cong.), (*Tezpur*).

BIHAR—53

Tulmohan Ram (Cong.), (*Araria—S.C.*); S. N. Sinha (Cong.-O), (*Aurangabad*); Bhola Raut (Cong.), (*Bagaha—S.C.*); Madhu Limaye (S.P.), (*Banka*); Dharam Bir Sinha (Cong.), (*Barh*); S. N. Mishra (Cong.-O), (*Begusarai*); Kamal Nath Tiwari (Cong.), (*Bettiah*); Bhagwat Jha Azad (Cong.), (*Bhagalpur*); Sheopujan Shastri (Cong.), (*Bikramganj*); A. P. Sharma (Cong.), (*Buxar*); Ram Shekhar P. Singh (Cong.), (*Chapra*); Shankar Dayal Singh (Cong.), (*Chatra*); L. N. Mishra (Cong.), (*Dharbhanga*); Ram, Narayan Sharma (Cong.), (*Dhanbad*); S. C. Besra (Cong.), (*Dumka—S.T.*); I. Choudhary (J.S.), (*Gaya*); C. Bhattacharya (Cong.), (*Giridih*); Jagdish N. Mandal (Cong.), (*Godda*); Pandit Dwarkanath Tiwari (Cong.), (*Gopalganj*); Digvijay Narain Singh (Cong. O), (*Hajipur*); Damodar Pandey (Cong.), (*Hazaribagh*); Bhogendra Jha (C.P.I.), (*Jainagar*); Chandra Sekhar Singh (C.P.I.), (*Jehanabad*); Bhola Manjhi (C.P.I.), (*Jamui—S.C.*); Swaran Singh Sokhi (Cong.), (*Jamshedpur*).

Gyaneswar Prasad Yadav (J.S.), (*Katihar*); Kamla Misra Madhukar (C.P.I.), (*Kesaria*); Shiv Shankar P. Yadav (S.P.), (*Khagaria*); N. E. Horo (Ind.), (*Khunti—S.T.*); Jamilur Rehman (Cong.), (*Krishanganj*); Kartik Oraon (Cong.), (*Lohardaga—S.T.*); Rajendra Prasad Yadav (Cong.), (*Madhipura*); Jagannath Misra (Cong.), (*Madhubani*); Ram Deo Singh (S.S.P.), (*Maharajganj*); D. P. Yadav (Cong.), (*Monghyr*); Bibhuti Mishra (Cong.), (*Motihari*); Nawal Kishore Sinha (Cong.), (*Muzaffarpur*); Sidheswar Prasad (Cong.), (*Nalanda*); Sukhdeo Prasad Verma (Cong.), (*Nawada*); Kumari Kamala Kumari (Cong.), (*Palamau—S.C.*); Ram Avtar Shastri (C.P.I.), (*Patna*); Harikishore Singh (Cong.), (*Puri*); V. Mohammad Tahir (Cong.), (*Purnea*); Yogesh Chander Murmu (Cong.), (*Rajmahal—S.T.*); Prasanta Kumar Ghosh (Cong.), (*Ranchi*); Ram Bhagat Paswan (Cong.), (*Rosera—S.C.*); Chiranjiv Jha (Cong.), (*Saharsa*); Yamuna Prasad Mandal (Cong.), (*Samastipur*); Jagjivan Ram (Cong.), (*Sasaram—S.C.*); Baliram Bhagat (Cong.), (*Shahabad*); Moran Singh Purti (Ind.), (*Singbhum—S.T.*); Nagendra Prasad Yadav (Cong.), (*Sitamarhi*); Mohammad Yusuf (Cong.), (*Siwan*).

GUJARAT—24

Purushottam Mavalankar (Ind.), (*Ahmedabad*); Dr. Jivraj Mehta (Cong.), (*Amreli*); Pravinsinh Solanki (Cong.—O), (*Anand*); Popatlal M. Joshi (Cong.), (*Banaskantha*); Prasannavadan Mehta (Cong.—O), (*Bhavnagar*); Mansinhi B. Rana (Cong.), (*Bharuch*); Nanubhai Patel (Cong.—O), (*Valsad —S.T.*); Prabhudas K. Patel (Cong.), (*Dabhoi*); H. M. Patel (Swa.), (*Dhanduka*); B. R. Parmar (Cong.—O), (*Dohad—S.T.*); Somchand Solanki (Cong.—O), (*Gandhinagar—S.C.*); Piloo Mody (Swa.), (*Godhra*); Daulatsinhji P. Jadeja (Cong.), (*Jamnagar*); N. R. Vekaria (Cong.), (*Junagadh*); Dharamsinh D. Desai (Cong.—O), (*Kaira*); Mahopatrai Mehta (Cong.), (*Kutch*); Amarsinh Choudhary (Cong.), (*Mandvi—S.T.*); Natwarlal A. Patel (Cong.—O), (*Mehsana*); Khemchandbhai Chawda (Cong.—O), (*Patan—S.C.*); Arvind M. Patel (Cong.), (*Rajkot*); C. C. Desai (Ind.), (*Sabarkantha*); Morarji R. Desai (Cong.—O), (*Surat*); Rasiklal Parikh (Cong.), (*Surendranagar*); Fatesinghrao Gaekwad (Ind.), (*Vadodara*).

HARYANA—9

Ram Parkash (Cong.), (*Ambala*); C. T. Hussain Khan (Cong.), (*Gurgaon*); Mani Ram Godara (Cong.), (*Hissar*); Prof. Sher Singh (Cong.), (*Jhajjar*); G. L. Nanda (Cong.), (*Kaithal*); M. R. Sherma (Cong.), (*Karnal*); Rao Birendra Singh (Ind.), (*Mahendragarh*); Mukhtiar Singh (J.S.), (*Rohtak*); Dalbir Singh (*Cong.*), (*Sirsa—S.C.*).

HIMACHAL PRADESH—4

Narain Chand Prashar (Cong.), (*Hamirpur*); Vikram Mahajan (Cong.), (*Kangra*); Virbhadra Singh (Cong.), (*Mandi*); Pratap Singh (Cong.), (*Simla*).

JAMMU AND KASHMIR—6

Shafi Mohd. Quareshi (Cong.), (*Anantnag*); Syed Ahmed Agha (Cong.), (*Baramulla*); Inderjit J. Malhotra (Cong.), (*Jammu*); Kushak Bakula (Cong.), (*Ladakh*); Shamim A. Shamim (Ind.), (*Srinagar*); Dr. Karan Singh (Cong.), (*Udhampur*).

KERALA—19

Mrs. Bhargavi Thankappan (C.P.I.) (*Adoor—S.C.*); K. Balakrishnan (R.S.P.), (*Ambalapuzha*); K. P. Unnikrishnan (Cong.), (*Badagara*); Vayalar Ravi (Cong.), (*Chirayinkil*); Henry Austin (Cong.), (*Ernakulam*); Ramachandran Kadannapalli (Cong.), (*Kasargod*); Varkey George (K.C.), (*Kottayam*); Ibrahim Sulaiman Sait (M.L.), (*Kozhikode*); C. H. Mohammed Koya (M.L.), (*Manjeri*); R. Balakrishna Pillai (K.C.), (*Mavelikkara*); A. C. George (Cong.), (*Mukundapuram*); C. M. Stephen (Cong.), (*Muvattupuzha*); A. K. Gopalan (C.P.I.—M.), (*Palghat*); M. M. Joseph (K.C.), (*Peermade*); M. K. Krishnan (C.P.I.—M.), (*Ponnani—S.C.*); N. Srikantan Nair (R.S.P.), (*Quilon*); C. K. Chandrappan (C.P.I.), (*Tellicherry*); C. Janardhanan (C.P.I.), (*Trichur*); V. K. Krishna Menon (Ind.), (*Trivandrum*).

MADHYA PRADESH—37

C. D. Gautam (Cong.), (*Balaghat*); Lambhodar Baliyar (Ind.), (*Bastar—S.T.*); N. K. P. Salve (Cong.), (*Betul*); Smt. Vijayaraje Scindia (J.S.), (*Bhind*); Dr. S. D. Sharma (Cong.), (*Bhopal*); Ram Gopal Tiwari (Cong.), (*Bilaspur*); Gauri Shankar Misra (Cong.), (*Chhindwara*); V. Shankar Giri (Cong.), (*Damoh*); B. S. Chowhan (J.S.), (*Dhar—S.T.*); Chandulal Chandrakar (Cong.), (*Durg*); Madhav Rao Scindia (J.S.), (*Guna*); Atal Behari Vajpayee (J.S.), (*Gwalior*); Nitiraj Singh (Cong.), (*Hoshangabad*); Ram Singh Verma (Cong.), (*Indore*); Dr. Govind Das (Cong.), (*Jabalpur*); Vacant (*Janjgir—S.C.*); Bhagirnath Bhanwar (S.P.), (*Jhabua—S.T.*).

Arvind Netam (Cong.), (*Kanker—S.T.*); G. C. Dixit (Cong.), (*Khandwa*); R. V. Bade (J.S.), (*Khargone*); Srikrishna Agrawal (Cong.), (*Mahaasmund*); Mangru Uikey (Cong.), (*Mandla—S.T.*); L. N. Pandey (J.S.), (*Mandsaur*); Hukamchand Kachwai (J.S.), (*Morena—(S.C.*); V. C. Shukla (Cong.), (*Raipur*); Umed Singh (Cong.), (*Raigarh—S.T.*); Ram Sahay Pandey (Cong.), (*Rajnandgaon*); Martand Singh (Ind.), (*Rewa*); Mrs. Sahodrabhai Rai (Cong.), (*Sagar—S.C.*); Narendra Singh of Panna (J.S.), (*Satna*); Dhan Shah Pradhan (Ind.), (*Shahdol—S.T.*); Jagannathrao Joshi (J.S.), (*Shahjapur*); Rambahadur Singh (Ind.), (*Sindhi*); Baboonath Singh (Cong.), (*Surguja—S.T.*); Nathuram Ahirwar (Cong.), (*Tikamgarh—S.C.*); Phool Chand Verma (J.S.), (*Ujjain —S.C.*); Ram Nath Goenka (Ind.), (*Vidisha*).

MAHARASHTRA—45

A. P. Shinde (Cong.), (*Ahmednagar*); V. P. Sathe (Cong.), (*Akola*); K. G. Deshmukh (Cong.), (*Amravati*); M. R. Palodkar (Cong.), (*Aurangabad*); R. K. Khadilkar (Cong.), (*Baramati*); J. P. Dubey (Cong.), (*Bhandara*); S. T. Pandit (Cong.), (*Bhir*); Bhao Sahib Dhamankar (Cong.), (*Bhiwandi*); Vacant, (*Bombay Central*); S. A. Kader (Cong.), (*Bombay Central-South*); Raja Kulkarni (Cong.), (*Bombay North-East*); H. R. Gokhale (Cong.) (*Bombay North-West*); Dr. N. N. Kailas (Cong.), (*Bombay South*); Y. S. Mahajan (Cong.), (*Buldana*); Sheikh Abdul Shafi (Cong.), (*Chanda*); K. R. Thakur (Cong.), (*Chimur*); L. K. Dumada (Cong.), (*Dahanu—S.T.*); C. A. Patil (Cong.), (*Dhulia*); D. B. Kadam (Cong.), (*Hatkanangale*); K. R. Patil (Cong.), (*Jalgaon*); Babu Rao Janglu Kale (Cong.), (*Jalna*).

Vacant (*Karad*); A. S. Kasture (Cong.), (*Khamgaon—S.C.*); A. R. Patil (Cong.), (*Khed*); S. B. Sawant (Cong.), (*Kolaba*); R. D. Nimbalkar (Cong.), (*Kolhapur*); E. V. Wikhe (Cong.), (*Kopergaon*); T. D. Kamble (Cong.), (*Latur—S.C.*); Z. M. Kahandole (Cong.), (*Malegaon—S.T.*); J. V. Dhote (F.B.), (*Nagpur*); V. B. Tarodekar (Cong.), (*Nanded*); Tukaram H. Gavit (Cong.), (*Nandurbar—S.T.*); B. R. Kavade (Cong.), (*Nasik*); T. A. Patil (Cong.), (*Osmanabad*); N. S. Kamble (Ind.), (*Pandharpur—S.C.*); S. S. Deshmukh (Cong.), (*Parbhani*); Mohan Dharia (Cong.), (*Poona*); M. R. Dandawate (S.P.), (*Rajapur*); Vacant (*Ramtek*); S. L. Peje (Cong.), (*Ratnagiri*); Y. B. Chavan (Cong.), (*Satara*); Annasaheb Gotkhinde (Cong.), (*Sangli*); S. R. Damani (Cong.), (*Sholapur*); J. G. Kadam (Cong.), (*Wardha*); S. B. Thakre (Cong.), (*Yeotmal*).

MANIPUR—2

N. Tombi Singh (Cong.), (*Inner Manipur*); Paokai Haokip (Cong.), (*Outer Manipur—S.T.*).

MEGHALAYA—2

Prof. G. G. Swell* (APHLC), (*Meghalaya—S.T.*); Karnesh Marak (APHLC), (*Tura—S.T.*).

MYSORE—27

S. B. Patil (Cong.), (*Bagalkot*); K. Hanumanthaiya (Cong.), (*Bangalore*); A. K. Kotra Shetty (Cong.), (*Belgaum*); Dr. V. K. R. V. Rao (Cong.), (*Bellary*); B. R. Shankerdeo (Cong.), (*Bidar*); B. E. Chaudhary (Cong.), (*Bijapur*); S. M. Siddiah (Cong.), (*Chamarajanagar—S.C.*); B. Shankaranand (Cong.), (*Chikodi—S.C.*); D. B. Chandre Gowda (Cong.), (*Chikmagalur*); Kondajji Basappa (Cong.), (*Chitradurga*); Sarojini Mahishi (Cong.),

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* Dy. Speaker, Lok Sabha, has no party affiliation as long as he is in Office.

(*Dharwar—North*) ; F. H. Mohsin (Cong.), (*Dharwar—South*) ; Dharam Rao Afzalpurkar (Cong.), (*Gulbarga*) ; Nuggehalli Shivappa (Cong.), (*Hassan*) ; M. V. Krishnappa (Cong.), (*Hoskote*) ; B. V. Naik (Cong.), (*Kanara*) ; C. K. Jaffer Shariff (Cong.), (*Kanakapura*) ; G. Y. Krishnan (Cong.), (*Kolar—S.C.*) ; Siddarameshwar Swamy (Cong.), (*Koppal*) ; K. Mallanna (Cong.), (*Madhugiri*) ; K. Chikkalingaiah (Cong.), (*Mandya*) ; K. K. Shetty (Cong.), (*Mangalore*) ; H. Tulsi Dasappa (Cong.), (*Mysore*) ; Pampan Gowda (Cong.), (*Raichur*) ; T. V. Chandrasekharappa (Cong.), (*Shimoga*) ; K. Lakkappa (Cong.), (*Tumkur*) ; P. Ranganath Shenoy (Cong.), (*Udipi*).

NAGALAND—1

A. Kevichusa (United Front of Nagaland).

ORISSA—20

P. Gangadeb (Cong.), (*Angul*) ; Shyam Sunder Mohapatra (Cong.), (*Balasore*) ; Arjun Sethi (Cong.), (*Bhadrak—S.C.*) ; Dutikrushna Panda (C.P.I.), (*Bhanjanagar*) ; Chintamani Panigrahi (Cong.), (*Bhubaneshwar*) ; Raj Singh Deo (Swa.), (*Bolangir*) ; R. Jagannath Rao (Cong.), (*Chatrapur*) ; Janaki Ballav Patnaik (Cong.), (*Cuttack*) ; Devendranath Satpathy (Cong.), (*Dhenkanal*) ; Anandi Charan Das (Cong.), (*Jajpur—S.C.*) ; Pratap Keshari Deo (Swa.), (*Kalahandi*) ; Surendra Mohanty (Utkal Cong.), (*Kendrapara*) ; Kumar Majhi (Cong.), (*Keonjhar—S.T.*) ; G. Gomango (Cong.), (*Koraput—S.T.*) ; Chandra Mohan Sinha (Utkal Congress), (*Mayurbhanj—S.T.*) ; Khagapati Pradhani (Cong.), (*Nowrangpur—S.T.*) ; Baksi Nayak (Swa.), (*Phulbani—S.C.*) ; Banamali Patnaik (Cong.), (*Puri*) ; Banamali Babu (Cong.), (*Sambalpur*) ; Gajadhar Majhi (Cong.), (*Sundargarh—S.T.*).

PUNJAB—13

R. L. Bhatia (Cong.), (*Amritsar*) ; Bhan Singh Bhaura (C.P.I.), (*Bhatinda—S.C.*) ; Gurdas Singh Badall (Akali), (*Fazilka*) ; Mohinder Singh Gill (Cong.), (*Ferozepore*) ; Prabhodh Chandra (Cong.), (*Gurdaspur*) ; Darbara Singh (Cong.), (*Hoshiarpur*) ; Sardar Swaran Singh (Cong.), (*Jullundur*) ; Devinder Singh Garcha (Cong.), (*Ludhiana*) ; Sat Pal Kapur (Cong.), (*Patiala*) ; Sadhu Ram (Cong.), (*Phillaur—S.C.*) ; Buta Singh (Cong.), (*Rupar—S.C.*) ; Vacant (*Sangrur*) ; Dr. Gurdial Singh Dhillon* (Cong.), (*Taran Taran*).

RAJASTHAN—23

Bashwesarnath Bhargava (Cong.), (*Ajmer*) ; Dr. Hari Prasad Sharma (Cong.), (*Alwar*) ; Hiralal Doda (Cong.), (*Banswara—S.T.*) ; Amrit Nahata (Cong.), (*Barmer*) ; Raj Bahadur (Cong.), (*Bharatpur*) ; Hemendra Singh (J.S.), (*Bhilwara*) ; Dr. Karni Singh (Ind.), (*Bikaner*) ; Bishwanath Jhunjhunwala (J.S.), (*Chittorgarh*) ; Nawal Kishore Sharma (Cong.), (*Dausa*) ; Pannalal Barupal (Cong.), (*Ganganagar—S.C.*) ; Jagannath Pahadia (Cong.), (*Hindaun—S.C.*) ; Smt. Gayatri Devi (Swa.), (*Jaipur*) ; Narendra Kumar Sanghi (Cong.), (*Jalore*) ; Brijraj Singh Kotah (J.S.), (*Jhalawar*) ; Smt. Krishna Kumari (Ind.), (*Jodhpur*) ; Shiv Nath Singh (Cong.), (*Jhunjhunu*) ; Onkar Lal Berwa (J.S.), (*Kota—S.C.*) ; Nathuram Mirdha (Cong.), (*Nagaur*) ; Mool Chand Daga (Cong.), (*Pali*) ; Chuthan Lal (Cong.), (*Sawai-Madhopur*) ; Srikishan Modi (Cong.), (*Sikar*) ; Ram Kanwar (Swa.), (*Tank—S.C.*) ; Lalji Bhai (J.S.), (*Udaipur—S.T.*).

TAMIL NADU—39

V. Mayavan (D.M.K.), (*Chidambaram—S.C.*) ; C. Chittibabu (D.M.K.), (*Chingleput*) ; Vacant (*Coimbatore*) ; S. Radhakrishnan (Cong.), (*Cuddalore—S.C.*) ; C. T. Dandapani (D.M.K.), (*Dharampuram—S.C.*) ; K. Maya Thevar (A.D.M.K.), (*Dindigul*) ; P. A. Swaminathan (D.M.K.), (*Gobichettipalayam*) ; K. Gopal (Cong.), (*Karur*) ; M. Deiveekan (D.M.K.), (*Kallakuruchi*) ; C. Subramaniam (Cong.), (*Krishnagiri*) ; Era Chezhian (D.M.K.), (*Kumbakonam*) ; K. Manoharan (A.D.M.K.), (*Madras—North*) ; Murasoli Maran (D.M.K.), (*Madras—South*) ; R. V. Swaminathan (Cong.), (*Madurai*) ; K. Subravelu (D.M.K.), (*Mayuram—S.C.*) ; G. Bhuvarahan (Cong.), (*Mettur*) ; M. Kanthamuthu (C.P.I.), (*Nagapattinam*) ; K. Kamaraj (Cong.-O), (*Nagercoil*) ; J. M. Gowder (D.M.K.), (*Nilgiris*).

A. Durairasu (D.M.K.), (*Perambalur—(S.C.*) ; S. M. Mohamed Sheriff (M.L.), (*Periakulam*) ; A. M. Mohanraj (D.M.K.), (*Pollachi*); K. Veeriah (D.M.K.), (*Pudukkottai*) ; P. K. Mookiah Thevar (F.B.), (*Ramanathapuram*); E. R. Krishnan (D.M.K.), (*Salem*); T. Kiruttinan (D.M.K.), (*Sivaganga*); Smt. V. Jayalakshmi (Cong.), (*Sivakasi*) ; T. S. Lakshmanan (D.M.K.), (*Sriparumbudur—S.C.*) ; A. M. Chellachamy (Cong.), (*Tenkasi—S.C.*); S. D. Somasundaram (A.D.M.K.), (*Thanjavur*); M. R. Lakshminarayanan (Cong.), (*Tindivanam*) ; M. S. Sivaswamy (D.M.K.), (*Tiruchendur*) ; M. Muthuswamy (D.M.K.), (*Tiruchengode*) ; M. Kalyansundaram (C.P.I.), (*Tiruchirapalli*) ; S. A. Muruganantham (C.P.I.), (*Tirunelveli*) ; C. K. Chinnaraji Gounder (D.M.K.), (*Tiruppatur*) ; O. V. Alagesan (Cong.), (*Tiruthani*) ; R. P. Ulaganambi (D.M.K.), (*Vellore—S.C.*) ; G. Vishwanathan (D.M.K.), (*Wandiwash*).

TRIPURA—2

Dasaratha Deb (C.P.M.), (*Tripura East—S.T.*) ; Biren Dutta (C.P.M.), (*Tripura West*).

UTTAR PRADESH—85

Achal Singh (Cong.), (*Agra*) ; Ramji Ram (Cong.), (*Akbarpur—S.C.*) ; Shiv Kumar Shastri (Ind.), (*Aligarh*) ; H. N. Bahuguna (Cong.), (*Allahabad*) ; Narendra Singh Bisht (Cong.), (*Almora*) ; Ishaq Sambhali (C.P.I.), (*Amroha*) ; Vidya Dhar Bajpai (Cong.), (*Amethi*) ; Mrs. Savitri Shyam (Cong.), (*Aonla*) ; Charanjit Yadav (Cong.), (*Azamgarh*) ; Ram Chandra Vikal (Cong.), (*Baghpat*) ; Badlu Ram Shukla (Cong.), (*Bahraich*) ; Chandra Bal M. Tewari (Cong.), (*Balrampur*) ; Chandrika Prasad (Cong.), (*Ballia*) ; Ram Ratan Sharma (J.S.), (*Banda*) ; Ram Surat (Cong.), (*Bansgaon—S.C.*) ; Rudra Pratap Singh (Cong.), (*Bara Banki*) ; Satish Chandra (Cong.), (*Bareilly*) ; A. P. Dhusia (Cong.), (*Basti—S.C.*) ; Swami Ramanand Sastri (Cong.), (*Bijnor*) ; Sushila Rohtagi (Cong.), (*Bilhaur*) ; Karan Singh Yadav (Cong.), (*Budaun*) ; Kunwar Surendra Pal Singh (Cong.), (*Bulandshahr*).

Chotey Lal (Cong.), (*Chail.*) : Sudhakar Pandey (Cong.), (*Chandauli*) ; Mulk Raj Saini (Cong.), (*Dehra Dun*) : Bishwa Nath Roy (Cong.), (*Deoria*) ; K. D. Malaviya (Cong.), (*Domariaganj*) ; Rohanlal Chaturvedi (Cong.), (*Etah*) ; Shankar Tiwari (Cong.), (*Etawah*) ; Ram Krishna Sinha (Cong.), (*Faizabad*) ; Avdesh Chandra Singh (Cong.), (*Farukhabad*) ; Sant Bux Singh (Cong.), (*Fatehpur*) ; Chatrapati Ambesh (Cong.), (*Firozabad—S.C.*) ; Pratap Singh Negi (Cong.), (*Garhwal*) ; Tula Ram (Cong.), (*Ghatampur—S.C.*) ; Sarjoo Pandey (C.P.I.), (*Ghazipur*) ; Jharkhande Rai (C.P.I.), (*Ghosi*) ; Anand Singh (Cong.—O.), (*Gonda*) ; Narsinh Narain Pandey (Cong.), (*Gorakhpur*) ; Swami Brahmanandji (Cong.), (*Hamirpur*) ; B. P. Maurya (Cong.), (*Hapur*) ; Kinder Lal (Cong.), (*Hardoi—S.C.*) ; Chandra Pal Shailani (Cong.), (*Hathras—S.C.*) ; Choudhury Ram Sewak (Cong.), (*Jalaun—S.C.*) ; Rajdeo Singh (Cong.), (*Jaunpur*) ; Govind Das Richhariya (Cong.), (*Jhansi*).

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Shafquat Jung (Cong.), (*Kairana*) ; Mrs. Shakuntala Nayar (J.S.), (*Kaisarganj*) ; S. N. Mishra (Cong.), (*Kannauj*) ; S. M. Banerjee (C.P.I.), (*Kanpur*) ; Maha Deepak Singh (J.S.), (*Kasganj*) ; Krishna Chandra Pandey (Cong.), (*Khalilabad*) ; Balgovind Verma (Cong.), (*Kheri*) ; Hari Singh (Cong.), (*Khurja—S.C.*) ; Ram Dhan (Cong.), (*Lalganj—S.C.*) ; Mrs. Sheela Kaul (Cong.), (*Lucknow*) ; Nageshwar Dwivedi (Cong.), (*Machhlishahr*) ; Shiban Lal Saxena (Ind.), (*Maharajganj*) ; Maharaj Singh (Cong.), (*Mainpuri*) ; Chakleshwar Singh (Cong.), (*Mathura*) ; Shah Nawaz Khan (Cong.), (*Meerut*) ; Aziz Imam (Cong.), (*Mirzapur*) ; Dr. Sankata Prasad (Cong.), (*Misrikh—S.C.*) ; Mrs. Ganga Devi (Cong.), (*Mohanlalganj—S.C.*) ; Veerendra Agarwala (J.S.), (*Moradabad*) ; Vijay Pal Singh (C.P.I.), (*Muzaffarnagar*) ; K. C. Pant (Cong.), (*Nainital*) ; Genda Singh (Cong.), (*Padrauna*) ; Viswa Nath Singh (Cong.), (*Phulpur*) ; Mohan Swaroop (Cong.), (*Pillibhit*) ; Dinesh Singh (Cong.), (*Pratapgarh*).

Indira Gandhi (Cong.), (*Rae Bareli*) ; Zulfiqar Ali Khan (Cong.), (*Rampur*) ; Baijnath Kureel (Cong.), (*Ramsanehighat—S.C.*) ; Ram Sarup (Cong.), (*Robertsganj—S.C.*) ; Sunder Lal (Cong.), (*Saharanpur—S.C.*) ; Shambu Nath (Cong.), (*Saidapur—S.C.*) ; Tarkeshwar Pandey (Cong.), (*Salempur*) ; Dharam Ganj Singh (Cong.), (*Shahbad*) ; J. Prasad (Cong.), (*Shahjahanpur*) ; Jagdish Chandra Dixit (Cong.), (*Sitapur*) ; Kedar Nath Singh (Cong.), (*Sultanpur*) ; P. Painuli (Cong.), (*Tehri Garhwal*) ; Ziaur Rehman (Cong.), (*Unnao*) ; Raja Ram Shastri (Cong.), (*Varanasi*).

WEST BENGAL—40

Indrajit Gupta (C.P.I.), (*Alipore*) ; Manoranjan Hazru (C.P.M.), (*Arambagh*) ; Krishna Chandra Haldar (C.P.M.), (*Ausgram—S.C.*) ; R. N. Barman (Cong.), (*Balurghat—S.C.*) ; Sankar Narayan Singh Deo (Cong.), (*Bankura*) ; Ranen Sen (C.P.I.), (*Barasat*) ; Mohd. Ismail (C.P.M.), (*Barrackpore*) ; A. K. M. Ishaque (Cong.), (*Basirhat*) ; Tridib Chaudhuri (R.S.P.), (*Berhampore*) ; Dr. Sardish Roy (C.P.M.), (*Bholpur*) ; Gadadhar Saha (C.P.M.), (*Birbhum—S.C.*); Somnath Chatterjee (C.P.M.), (*Burdwan*) ; Robin Sen (CPIM), (*Burdwan*) ; Hiren Mukherjee (C.P.I.), (*Calcutta—North-East*) ; Asok Kumar Sen (*Cong.*), (*Calcutta—North-West*) ; Priya Ranjan Das Munshi (Cong.), (*Calcutta South*) ; Prof. Samar Guha (P.S.P.), (*Contai*) ; B. K. Das Chowdhury (Cong.), (*Cooch-Behar*).

Ratanlal Brahman (C.P.M.), (*Darjeeling*) ; Jyotirmoy Basu (C.P.M.), (*Diamond Harbour*) ; Jagdish Bhattacharya (C.P.M.), (*Ghatal*) ; Bijoy Krishna Modak (C.P.M.), (*Hooghly*) ; Samar Mukherjee (C.P.M.), (*Howrah*) ; Tuna Oraon (Cong.), (*Jalpaiguri—S.T.*) ; Lutifal Haque (Cong.), (*Jangipur*) ; Amiyanath Kisku (Cong.), (*Jhargram—S.T.*) ; Sakti Kumar Sarkar (Cong.), (*Joynagar—S.C.*) ; Saroj M. Mukherjee (C.P.M.), (*Katwa*) ; Prof. Renu Pada Das (C.P.M.), (*Krishnagar*) ; Dinesh Chandra Joarder (C.P.M.), (*Malda*) ; Prof. Madhuriya Haldar (C.P.M.), (*Mathurapur—S.C.*) ; Subodh Chandra Hansda (Cong.), (*Midnapur*); Md. Khuda Buksh (Cong.), (*Murshidabad*) ; Mrs. Bibha Ghosh Goswami (C.P.M.), (*Nabadwip—S.C.*) ; Debendra Nath Mahato (Cong.), (*Purulia*) ; Mrs. Maya Ray (Cong.), (*Raiganj*) ; Dinendra Nath Bhattacharya (C.P.M.), (*Serampore*) ; Satish Chandra Samanta (Ind.), (*Tamluk*) ; Syama Prasanna Bhattacharya (C.P.M.), (*Uluberia*) ; Ajit Kumar Saha (C.P.M.), (*Vishnupur—S.C.*).

ANDAMAN AND NICOBAR ISLANDS—1

K. R. Ganesh (Cong.).

ARUNACHAL PRADESH—1

Chow Chandrat Gohaine (Cong.).

CHANDIGARH—1

Amarnath Vidyalankar (Cong.).

DELHI—7

Mrs. Subhadra Joshi (Cong.), (*Chandni Chowk*) ; Amar Nath Chawla (Cong.), (*Delhi Sadar*) ; H. K. L. Bhagat (Cong.), (*East Delhi*) ; Sohan Lal (Cong.), (*Karol Bagh—S.C.*) ; Mrs. Mukul Banerji (Cong.), (*New Delhi*) ; Dalip Singh (Cong.), (*Outer Delhi*) ; Shashi Bhushan (Cong.), (*South Delhi*).

DADRA AND NAGAR HAVELI—1

Ramubhai Ravjibhai Patel (Cong.).

GOA, DAMAN AND DIU—2

Purushottam Kakodkar (Cong.), (*Panaji*) ; Erasmo Sequeira (U.G.), (*Marmugoa*).

LACCADIVE, MINICOY AND AMINDIVI ISLANDS—1

P. Mohamad Sayeed (Cong.).

MIZORAM—1

Mr. Sangliana (Mizo Union).

PONDICHERRY—1

Vacant.

ANGLO-INDIANS—2

Frank Anthony ; Mrs. M. Godfrey.

ESTIMATES COMMITTEE (1973-74)

Chairman : Kamal Nath Tewari.

Members : R. N. Barman, Rajagopalarao Boddepalli, Swami Brahmanand, Smt. Jyotsna Chanda, Bhaoosahaib Dhamankar, Giridhar Gomango, D. B. Chandra Gowda, Krishna Chandra Halder, Hari Singh, M. M. Joseph, Tulsiram Dashrath Kamble, Haji Lutfal Haque, Nageshwararao Meduri, Prasannbhai Mehta, Mohammad Tahir, Surendra Mohanty, Smt. Shakuntala Nayar, Krishna Chandra Pandev, Anantrao Patil, Jharkhande Rai, P. Ganga Reddy, Ch. Sadhu Ram, Ebrahim Sulaiman Sait, P. A. Saminathan, P. Ranganath Shenoy, Awdesh Chandra Singh, R. K. Sinha, M. G. Uikey and G. P. Yadav.

PUBLIC ACCOUNTS COMMITTEE (1973-74)

Chairman : Jyotirmoy Bosu.

Members : D. S. Afzalpurkar, Virendra Agarwala, S. C. Besra, M. Deiveekan, C. D. Gautam, Y. S. Mahajan, Bibhuti Mishra, H. N. Mukerjee, Paripoornanand Painuli, N. C. Parashar, H. M. Patel, P. Antony Reddi, Biswanarayan Shastri, Sunder Lal, M. Anandam, Golap Barbora, Bipinpal Das, Nawal Kishore, P. S. Patil, Sasankasekhar Sanyal and Sawaisingh Sisodia.

PUBLIC UNDERTAKINGS COMMITTEE (1973-74)

Chairman : Amrit Nahata.

Members : Dinen Bhattacharya, T. H. Gavit, K. Gopal, J. Matha Gowder, Dr. Mahipatray Mehta, Dr. Sankta Prasad, Nawal Kishore Sharma, Ramavtar Shastri, R. P. Yadav, M. S. Abdul Khader, Lal K. Advani, U. N. Mahida, Smt. Purabi Mukhopadhyay and Suraj Prasad.

LEGISLATIVE ASSEMBLIES AND LEGISLATIVE COUNCILS

ANDHRA PRADESH LEGISLATIVE ASSEMBLY

The assembly was dissolved on Jan. 19, 1973 and President's rule was imposed in the State.

ANDHRA PRADESH LEGISLATIVE COUNCIL

The Council was dissolved on January 19, 1973.

ASSAM LEGISLATIVE ASSEMBLY

Speaker : Ramesh Chandra Barooah.

Dy. Speaker : Golak Rajbanshi.

Seats : 114. *Electorate :* 6,245,942 ; *Votes polled :* 3,849,853. An estimate of party position is given below : Cong. 93 ; Communist Party 3 ; Socialist Party 4 ; Swatantra 1 ; Independent and others 11 ; Vacant 1 ; Women Members : 7.

Ayodhya Ram Das (Cong.), (*Abhayapuri–SC*) ; Puspadhar Chaliha (Cong.), (*Amguri*) ; A. Abdul Jalil Choudhury (Cong.), (*Badarpur*) ; Jalaluddin (Cong.), (*Baghbar*) ; Dhani Ram Rongpi (Cong.), (*Baithalangso*) ; Golok Rajbanshi (Cong.), (*Balipara*) ; Surendranath Das (Cong.), (*Barama–ST*) ; Keshoram Hazarika (CPI), (*Barhampur*); Ghanakanta Boro (S.P.), (*Bhabanipur*) ; Premadhar Bora (Ind.), (*Bihpuria*) ; Golak Chand Patgiri (Cong.), (*Bijni*) ; Giasuddin Ahmed (Ind.), (*Bilasipara*) ; Koshewar Bora (Ind.), (*Biswanath*) ; Upendra Nath Sanatan (Cong.), (*Bogdung*) ; Sai Sai Terrang (Cong.), (*Bokajan*) ; Tulsi Das (Cong.), (*Bokakhat–ST*) ; Jagadish Das (Cong.), (*Bokani*) ; Prabin Kumar Choudhury (Cong.), (*Boko*) ; Dhriba Narayan Barua (Cong.), (*Bongaigaon*) ; Gaurishankar Bhattacharjee (Ind.), (*Borbhag*) ; Dr. Lutfur Rahman (Cong.), (*Borkhola*).

Dulal Chandra Baruah (Ind.), (*Charaibahi*) ; Mrs. Satyabati Goswami (Cong.), (*Chhaygaon*) ; Abdul Hannan Choudhury (Cong.), (*Chenga*) ; Hashimuddin Ahmed (Cong.), (*Dalgaon*) ; Nagendra Baruah (SP), (*Dergaon*) ; Lakshyanath Doley (Cong.), (*Dhakuakhana–ST*) ; Hiranya Bora (Cong.), (*Dhekiajuli*) ; Ramesh Mohan Kowli (Ind.), (*Dhemaji*) ; Vacant, (*Dhing*) ; Digendra Chandra Purkayastha (Cong.), (*Dholai*) ; Muhammad Umaruddin (Cong.), (*Dhubri*) ; Ramesh Chandra Barna (Cong.), (*Dibrugarh*) ; Chandra Bahadur Chetri (Cong.), (*Digboi*) ; Vacant (*Diphu—S.T.*) ; Malia Tanti (Cong.), (*Doom-Dooma*) ; Smt. Anandibala Rava (Cong.), (*Dudhnai—S.T.*) ; Atul Chandra Saikia (Cong.), (*Gauhati East*) ; Biren Ram Phukan (Cong.), (*Gauhati-West*) ; Syed-Ahmed Ali (Cong.), (*Gauripur*) ; Bala Bhadra Das (Cong.), (*Goalpara-East*) ; Samsul Haque (Cong.), (*Goalpara West*) ; Ram Chandra Sarma (Ind.), (*Gohpur*) ; Soneswar Bora (SP), (*Golaghat*) ; Kabir Roy Pradhani (Ind.), (*Golakganj*) ; Mathias Tudu (Cong.), (*Gossaigaon*).

J. B. Hagjer (Cong.), (*Haflong–ST*) ; Abdur Rahman Choudhury (Cong.), (*Hailakandi*) ; Mrs. Renuka Debi Barkataki (Ind.), (*Hajo*) ; Idris Ali Fakir (Cong.), (*Hojai*) ; C. S. Terron (Cong.), (*Howraghat*) ; Smt. Rebati Das (Cong.), (*Jalukbari*) ; Debendra Nath Bora (Cong.), (*Jamunamukkh*) ; Ataur Rahman (Cong.), (*Jania*) ; Bijoy Krishna Handique (Cong.), (*Jorhat*) ; Khirode Chandra Saikia (Cong.), (*Joypur*) ; Lakshmi Kanta Saikia (Cong.), (*Kalaigaon*) ; Golap Baruah (Cong.), (*Kaliabor*) ; Girindra Chandra Choudhury (Cong.), (*Kamalpur*) ; Abdul Muktadir Choudhury (Cong.), (*Karimganj-North*) ; Sudarshan Das (Cong.), (*Karimganj-South-SC*) ; Abdul Hamid Majumdar (Cong.), (*Katigorah*) ; Santosh Kumar Roy (Cong.), (*Katlicherra*) ; Sarat Chandra Sinha (Cong.), (*Kokrajhar-East*) ; Charan Narzari (PTC), (*Kokrajhar-West*).

Abdul Kasem (Cong.), (*Lahorighat*) ; Dipok Moormoo (Cong.), (*Lahoal*) ; Subhankar Singha (Cong.), (*Lakhimpur*) ; Gobinda Chandra Bora (Cong.), (*Lakhimpur-North*) ; Santi Ranjan Dasgupta (Cong.), (*Lumding*) ; Khagen Gogoi (Cong.), (*Mahmora*) ; Lam Chandra Pegu (Cong.), (*Majuli –ST*) ; Sayeda Anowara Taimur (Cong.), (*Mangaldoi*) ; Nurul Islam (Cong.), (*Mankachar*) ; Gajen Tanti (Cong.), (*Mariani*) ; Bijoy Chandra Sharma (Cong.), (*Mishamari*) ; Tarun Chandra Chitua (Cong.), (*Moran*) ; Pitsing Konwar (Ind.), (*Morigaon*) ; Badan Chandra Talukdar (SP), (*Nalbari-East*) ; Dr. Bhumidhar Barman (Cong.), (*Nalbari-West*) ; Lilakanta Das (Cong.), (*Naoboicha–SC*) ; Hiteswar Saikia (Cong.), (*Nazira*) ; Lilakanta Bora (Cong.), (*Nowgong*) ; Harendra Nath Talukdar (Cong.), (*Palasbari*) ; Ramesh Saharia (Cong.), (*Panery*) ; Dr. Krishna Kanta Lahkar (Cong.), (*Patacharkuchi*) ; Bishwanath Upadhyaya (Cong.), (*Patharkandi*).

Gunendra Nath Pandit (Cong.), (*Raha*) ; Upendra Das (Cong.), (*Rangamati–SC*) ; Mahendranath Sharma (Cong.), (*Rangiya*) ; Suranjan Nandy (Cong.), (*Ratabari*) ; Muhammad Abbas Idrish (Cong.), (*Rupohighat*) ; Mrs. Tarulata Bora (Cong.), (*Saikhowa*) ; Bajlul Basit (Cong.), (*Salmara-South*) ; Bishnu Prasad (Cong.), (*Samuguri*) ; Kandarpa Das (Cong.), (*Sarukhetri–SC*) ; Chatra Gopal Karmakar (Cong.), (*Sarupathar*) ; Promode Gogoi (CPI), (*Sibsagar*) ; Uttam Chandra Brahma (Cong.), (*Sidli–ST*) ; Mohitosh Purkayastha (Cong.), (*Silchar*) ; Nurul Haque Choudhury (Cong.), (*Sonai*) ; Janakinath Handique (Ind.), (*Sonari*) ; Smt. Pranita Talukdar (Cong.), (*Sorbhog*) ; Smt. Swarna Prabha Mahanta (Cong.), (*Sootea*) ; Ambarish Chandra Lahiri (Cong.), (*Tamulpur*) ; Indreswar Khaund (Cong.), (*Tengakhat*); Dulal Chandra Khound (CPI), (*Teok*) ; Dr. Rabindrakumar Goswami (Cong.), (*Tezpur*) ; Naradkumar (Cong.), (*Thawra*) ; Rajendra Nath Phikan (Cong.), (*Tingkhong*) ; Paramananda Gogoi (Cong.), (*Tinsukia*) ; Joy Chandra Bora (Cong.), (*Titabar*) ; Bahadur Basumatari (Cong.), (*Udalguri–ST*) ; Jagannath Sinha (Cong.), (*Udhorband*).

BIHAR VIDHAN SABHA

Speaker : Harinatha Misra.

Dy. Speaker : Shakoor Ahmed.

Party-wise position of the Assembly is as follows:

Seats : 319. Congress : 173 ; Communist Party: 35 ; Socialist : 34 ; Cong. (O) : 27 ; Jan Sangh : 24 ; Swatantra : 1 ; Hul Jharkhand : 2 ; Hindustani Shoshit Dal : 2 ; Progressive Hul Jharkhand : 1 ; Jharkhand (N.E. Horo) 1 ; Akhil Bhartiya Jharkhand : 3 ; Nominated: 1 ; Independents : 14 ; Vacant : 1. Women Members : 10.

Ram Prit Rai (Cong.), (*Adapur*) ; Vidyakar Kavi (Cong.), (*Alamnagar*) ; Mishri Sada (Cong.), (*Allouli–SC*) ;

Janardan Yadav (JS), (*Amarpur*); Hasibur Rahman (Cong.), (*Amour*); Azam (Soc.), (*Araria*); Braj Kishore Narain Singh (Cong. (O)), (*Barauli*); Mrs. Sumitra Devi (Cong.), (*Arrah*); Rang Bahadur Singh (Ind.), (*Arwal*); Ayodhya Prasad (Cong. (O)), (*Ashthawan*); Maheswari Prasad Singh (Cong. (O)), (*Atri*); Brij Mohan Singh (Cong. (O)), (*Aurangabad*); Ram Babu Singh (Cong.), (*Aurai*); Mohammed Ayub (Ind.), (*Azamnagar*).

Ramdeo Rai (Cong.), (*Bachhwara*); Narsingh Baitha (Cong.), (*Bagaha–SC*); Imamul Haikhan (Cong.), (*Baghmara*); Kunwar Basant Narain Singh (J.S.), (*Bagodar*); Nizamuddin (Cong.), (*Bahadurganj*); Shibu Ranjan Khan (Cong.), (*Baharagora*); Tej Narain Yadav (Swa.), (*Baheri*); Sabhapati Singh (Soc.), (*Baikunthpur*); Lakshminarayan Sharma (J.S.), (*Bairagarh*); Bhola Prasad Singh (Soc.), (*Bakhtiarpur*); Ram Chandra Paswan (CPI), (*Bakhri–SC*); Chandra Choor Deo (J.S.), (*Balia*); Smt. Uma Pandey (Cong.), (*Baniapur*); Thakur Kamakhya Pd. Singh (Cong.), (*Banka*); Rasiklal Rishideo (Cong.), (*Banmankhi–SC*); Mohan Ram (Cong.), (*Barachatti–SC*); Mohammed Shakoor (Cong.), (*Barari*); Chandra Sekhar Singh (CPI), (*Barauni*); Rajo Singh (Ind.), (*Barbigha*); Ram Vilash Singh (Cong. (O)), (*Barhara*); Abdul Jalil (CPI), (*Barharia*); Thakur Dwaraknath Singh (Cong.), (*Barh*); Masih Soren (Swa.), (*Barhait–ST*); Beaula Doza (Cong.), (*Barsoi*); Rameshwar Prasad Mahta (Cong.), (*Barhi*); Kapil Deo Singh (Soc.), (*Barhiya*); Ram Jivan Singh (Soc.), (*Bariyarpur*); Mahesh Ram (J.S.), (*Barkagaon*); Yamuna Singh (Soc.), (*Baruraj*); Faturi Singh (Cong. (O)), (*Bathnaha*); Bhola Singh (CPI), (*Begusarai*); Mrs. Shakuntala Devi (Cong.), (*Belhar*); Jitendra Prasad Singh (Cong. (O)), (*Belaganj*); Ram Surat Singh (Cong.), (*Belsand*); Tej Narain Jha (CPI), (*Benipatti*); Vindeshwari Dubey (Cong.), (*Bermo*); Karam Chand Bhagat (Cong.), (*Bero-ST*); Krishna Mohan Pandey (Cong.), (*Bettiah*); Shyam Narain Pandey (Cong.), (*Bhabhua*); Vijay Kumar Mitra (J.S.), (*Bhagalpur*); Shankar Pratap Deo (Cong.), (*Bhavnathpur*); Raj Mangal Mishra (Cong.), (*Bhore*); Bandhu Mahto (Cong.), (*Bibhutipur*); Virendra Prasad (J.S.), (*Bihar*); Prabhu Narain Rai (CPI), (*Bihpur*); Khaderan Singh (Cong. (O)), (*Bikram*); Sant Prasad Singh (CPI), (*Bikramganj*); Anirudh Jha (J.S.), (*Biraul*); Aziz Nuruddin (Ind.), (*Bisfi*); Ramdevi Ram (Cong.), (*Bishrampur–SC*); Ramji Ram (Ind.), (*Bochaha–SC*); Balikram (CPI), (*Bodhgaya–SC*); Set Hembrom (Hul Jharkhand), (*Boriyo–ST*); Rishikesh Tiwary (Cong.), (*Brahmpur*); Jagnarain Trivedi (Cong.), (*Buxar*).

Bagun Sumbrui (Ind.), (*Chaibasa–ST*); Lalmuni Chaube (JS.), (*Chainpur*); Jay Ram Oraoan (Ind.), (*Chainpur–ST*); Chandra Shekhar Singh (Cong.), (*Chakai*); Theodore Bodra (Cong.), (*Chakradharpur–ST*); Durga Charan Das (Cong.), (*Chandan Kiyari–SC*); Ram Raj Pd. Singh (Cong.), (*Chandi*); Umesh Prasad Verma (Cong.), (*Chanpatia*); Janak Yadav (Cong.), (*Chapra*); Kumbh Narain Sardar (Cong.), (*Chhatapur–SC*); Tapeshwar Deo (Cong.), (*Chatra*); Nand Kishore Singh (Cong.), (*Chauparan*); Ghan Shyam Singh (Cong.), (*Chautham*); Ram Bachan Paswan (H.S.D.), (*Chenari–SC*); Sadanand Singh (Cong.), (*Colgong*); Jagdish Prasad Choudhury (*Cong.*), (*Dalsingh Sarai*); Puran Chand (Soc.), (*Daltonganj*); Krishna Pratap Singh (J.S.), (*Darauli*); Surendra Jha Suman (J.S.), (*Darbhanga*); Ram Bilas Singh (Soc.), (*Daudnagar*); Khalid Anwar Ansari (Cong.), (*Dehri*); Baidya Nath Dass (Cong.), (*Deoghar—S.C.*); Mohd. Hafiz Idris Ansari (Cong.), (*Dhaka*); Jai Narayan Mehta (Cong.), (*Dhamdaha*); Hardeo Prasad (Cong.), (*Dhanaha*); Chinmoy Mukherjee (C.P.I.), (*Dhanbad*); Punit Rai (Cong.), (*Dhanwar*); Naresh Das (C.P.I.), (*Dhoraiya—S.C.*); Budh Deo Singh (Cong.), (*Dinapur*); Ram Narain Sah (Cong. O), (*Dinara*); Paika Murmu (Cong.), (*Dumka–ST*); Sardar Harihar Prasad Singh (Cong. (O)), (*Dumraon*); Murli Bhagat (Cong.), (*Dumri*).

Ram Swaroop Prasad (J.S.), (*Ekangar Sarai*); Kameshwar Paswan (J.S.), (*Fatwa–SC*); Saryu Mishra (Cong.), (*Forbesganj*); Nitishwar Pd. Sinha (Cong.), (*Gaighatti*); Awadh Kishore Tiwari (Cong.), (*Garhwa*); Raghunandan Majhi (Cong.), (*Garkha–SC*); Taneshwar P. Azad (Cong.), (*Gawan–ST*); Jugal Kishore Prasad (Cong.), (*Gaya*); Suryadeo Singh (Cong-(O)), (*Gaya Muffasil*); Tika Ram Majhi (CPI), (*Ghatsila–ST*); Rajendra Pratap Sinha (Cong.), (*Ghorasahan*); Ramashray Prasad Singh (CPI), (*Ghoshi*); Chaturanan Mishra (CPI), (*Giridih*); Prof. Rama Shanker Pandey (Cong.), (*Gobindganj*); Hemant Kumar Jha (Cong.), (*Godda*); Thakur Muneshwar Nath Singh (Cong. (O)), (*Goh*); Mrs. Ram Dulari Sinha (Cong.), (*Gopalaganj*); Madan Prasad Singh (Cong.), (*Gopalpur*); Samayele Nabi (Cong.), (*Goraul*); Mahamaya Pd. Sinha (Cong.), (*Goreakothi*); Amrit Prasad (Cong.), (*Govindpur*); Bairagi Oraon (Cong.), (*Gumla–ST*); Motilal Sinha Kanan (Soc.), (*Hajipur*); Shakur Ahmad (Cong.), (*Harlakhi*); Hidayatullah Khan (Cong.-(O)), (*Harsidhi*); G. P. Himanshu (Soc.), (*Hassanpur*); Baleshwar Ram (Cong.), (*Hayaghat–SC*); Raghu Nandan Prasad (J.S.), (*Hazaribagh*); Nawal Kishore Singh (Cong.), (*Hilsa*); Shatrughan Sharan Singh (Cong.), (*Hisua*); Awadesh Kumar Singh (Ind.), (*Hassainabad*).

Shatrughan Adityadeo (Ind.), (*Ichagarh*); Awdheshwar Ram (Cong.), (*Imamganj–SC*); Ram Saran Prasad Singh (Cong.), (*Islampur*); Sidiu Hemrom (Cong.), (*Jagannathpur–ST*); Sheo Pujan Verma (Cong.), (*Jagdishpur*); Harilal Prasad Sinha (Cong.-O), (*Jahanabad*); Ramphal Paswan (Cong.), (*Jainagar–SC*); Kumar Kalika Singh (Cong.), (*Jalalpur*); Khadim Hussain (CPI), (*Jalley*); Madan Besra (Cong.), (*Jama–ST*); Suresh Kumar Singh (J.S.), (*Jamalpur*); Kedar Das (CPI), (*Jamshedpur-East*); Ramawtar Singh (CPI), (*Jamshedpur-West*); Durga Prasad Singh (Cong.), (*Jamtara*); Rit Lal Prasad Verma (J.S.), (*Jamua*); Tripurari Prasad Singh (Soc.), (*Jamui*); Bhagdeo Singh (Cong.), (*Jandaha*); Sree Kant Jha (Cong.), (*Jarmundi*); Shiva Nandan Jha (Soc.), (*Jhajha*); Jagannath Mishra (Cong.), (*Jhanjharpur*); Sheokumar Rai (CPI), (*Jharia*); Chhatu Ram Mahto (J.S.), (*Jharidih*); Taslimuddin (Ind.), (*Jokihat*); Sanatan Majhi (Ind.), (*Jugsalai–ST*).

Ramtahal Chowdhary (J.S.), (*Kanke*); Ram Naresh Trivedi (Cong.), (*Kalyanpur*); Shambhu Sharan Thakur (Cong.), (*Kanti*); Smt. Manorama Pandey (Cong.), (*Karakat*); Ram Narayan Mandal (Cong.), (*Kasba*); Jay Prakash Mishra (Ind.), (*Katoria*); Algu Ram (Cong.-O) (*Kateya–SC*); Rajkishore Prasad Singh (CPI), (*Kathihar*); Hukum Dev. Narayan Yadav (Soc.), (*Keotiranway*); Pitambar Singh (CPI), (*Kesariya*); Ram Saran Yadav (J.S.), (*Khagaria*); Mahendra Narain Jha (Cong.), (*Khajauli*); Rajendra Pd. Singh (Cong.), (*Kharagpur*); Ghulab Singh Munda (Akhil Bhartiya Jharkhand), (*Kharsawan–ST*); Umrao Sadho Kujur (Cong.), (*Khijri–ST*); Tiru Mochi Rai Munda (Cong.), (*Khumti–ST*); Rafique Alam (Cong.), (*Kishanganj*); Vinayak Pd. Yadav (Soc.), (*Kishanpur*); Rajendra Natha Dan (Cong.), (*Kodarma*); S. K. Bage (Cong.), (*Kolebera–ST*); Nand Kumar Singh (Soc.), (*Konch*); Vishwanath Rishideo (Cong.), (*Korha*); Nagina Rai (Cong.), (*Kuchaikot*); Sadhu Sharan Shahi (Soc.), (*Kurhani*); Jai Kumar Singh (Soc.), (*Kumarkhand*); Ramashraya Prasad Singh (Cong.), (*Kurtha*).

PTC: Plains Tribal Council.

Dip Narain Singh (Cong.), (*Lalganj*) ; Vijay Virendra Kumar (Cong.), (*Latehar–ST*) ; Dhanik Lal Mandal (Soc.), (*Laukaha*) ; Phulena Rai (Cong.), (*Lauriya*) ; Bhisma Narayan Singh (Cong.), (*Lesliganj*) ; Somu Murmu (Hul Jharkhand), (*Litiapara–ST*) ; Bihari Lakra (Cong.), (*Lohardagga–ST*) ; Radhanandan Jha (Cong.), (*Madhepur*) ; Bindeshwari Prasad Mandal (Soc.), (*Madhipura*) ; Mrs. Raj Pati Devi (CPI), (*Madhuban*) ; Suraj Narayan Singh (Soc.), (*Madhubani*) ; Ajit Kumar Banerjee (J.S.), (*Madhupur*) ; Awadh Bihari Singh (J.S.), (*Mahaguma*) ; Mrs. Anusuya Devi (Cong.), (*Maharajganj*) ; Kalidas Murmu (Cong.), (*Maheshpur–ST*) ; Lahtan Choudhary (Cong.), (*Mahishi*) ; Munishwar Pd. Singh (Soc.), (*Mahnar*) ; Ramnarain Ram (Cong.), (*Mairwa–SC*) ; Debendra Nath Champia (Ind.), (*Majhgaon–ST*) ; Ram Brikish Ram (Soc.), (*Majorganj–SC*) ; Ram Swarup Ram (Cong.), (*Makhdumpur–SC*) ; Ram Nagina Singh (Cong. O), (*Maner*) ; Srikrishna Bhagat (Cong.), (*Mandar–ST*) ; Birendra Kumar Pandey (Cong.), (*Mandu*) ; Nagendra Jha (Cong.), (*Manigachi*) ; Yuvraj (Soc.), (*Manihari*) ; Ram Bahadur Singh (Soc.), (*Manjhi*) ; Durga Prasad Jarmuda (Cong.), (*Manoharpur–ST*) ; Bhisma Pd. Yadav (Cong.), (*Marhawra*) ; Bhubneshwar Sharma (CPI), (*Masaurahi*) ; Ram Deo Singh (Cong.), (*Mashrak*) ; Mahanth Ram Kishore Das (Cong. O), (*Meenapur*) ; Anant Prasad Singh (Cong.), (*Mirganj*) ; Suresh Kumar (Cong.), (*Mohaniya–SC*) ; Kapil Deo Narayan Singh (Cong.), (*Mohiuddin Nagar*) ; Smt. Krishna Sahi (Cong.), (*Mokameh*) ; Prafulla Kumar Mishra (Cong.), (*Monghyr-Sadar*) : Smt. Prabhawati Gupta (Cong.), (*Motihari*) ; Raj Nandan Prasad (J.S.), (*Murliganj*) ; Ramdeo Sharma (CPI), (*Muzaffarpur*).

Jugal Singh (Cong.-O), (*Nabinagar*) ; Bisheshwar Khan (CPI), (*Nala*) ; Satyanarayan Yadav (Cong.), (*Narpatganj*) ; Chunchun Prasad Yadav (Cong.), (*Nathnagar*) ; Kedar Pandey (Cong.), (*Nautan*) ; Smt. Gayatri Devi (Cong.), (*Navada*) ; Lal Bihari Prasad (CPI), (*Navanagar–SC*) ; Nirmalendu Bhattacharya (CPI), (*Nirsa*) ; Jagdish Ojha (Cong.-O), (*Nokha*) ; Narain Singh (Cong.), (*Obra*); S. M. Jafar Ali (Cong.), (*Pakaur*) ; Mayanand Thakur (Cong.), (*Palasi*) ; Kanhai Singh (Cong.-O), (*Paliganj*) ; Baldeo Ram (Cong.), (*Panki–SC*) ; Daroga Prasad Rai (Cong.), (*Parsa*) ; Virendra Kumar Sinha (Cong.), (*Paru*) ; Shivakant Mishra (Cong.), (*Parbatta*) ; Thakur Ramapati Singh (Soc.), (*Patahi*) ; Ghanashyam Mahato (Cong.), (*Patamda*) ; Rijhan Ram (CPI), (*Patepur–SC*) ; Jamil Ahmad (Cong.), (*Patna-East*) ; Ram Lakhan Singh Yadav (Cong.), (*Patna-South*) ; Sunil Mukherji (CPI), (*Patna-West*) ; Ambika Prasad (CPI), (*Peerpaiti*) ; Uttam Lal Yadav (Soc.), (*Phulparas*) ; Tulsi Ram (CPI), (*Pipra–SC*) ; Jai Narain (Cong.), (*Piro*) ; Prithvi Chand Kishku (Cong.), (*Poryahat–ST*) ; Mahabir Paswan (Cong.-O), (*Punpun–SC*) ; Ram Briksha Choudhary (Cong.), (*Pupari*) ; Kamaldeo Narain Singh (Cong.-O), (*Purnea*).

Faguni Ram (Cong.), (*Rafiganj–SC*) ; Babulal Shastri (Soc.), (*Raghopur*) ; Amrendra Mishra (Cong.), (*Raghopur*) ; Srinivas Narain Singh (Cong.-O), (*Raghunathpur*) ; Banwari Ram (Cong.), (*Rajauli–SC*) ; Chandra Deo Prasad Himansu (CPI), (*Rajgir–SC*) ; Nathmahal Dokania (Cong.), (*Rajmahal*) ; Bilat Paswan (Cong.), (*Rajnagar–SC*) ; Sachchidanand Singh (Soc.), (*Ramgarh*) ; Mrs. Shahidunnisa (CPI), (*Rambarh*) ; Narain Vikram Shah (Cong.-O), (*Ramnagar*) ; Deo Dutt Sahu (Cong.), (*Ranchi*) ; Bundel Paswan (Ind.), (*Raniganj–SC*) ; Saghir Ahmad (Cong.), (*Raxaul*) ; Ramashray Rai (J.S.), (*Rosera*) ; Tribeni Prasad Singh (Cong.-(O)), (*Runnisaidpur*) ; Anandi Prasad Singh (Cong.), (*Rupauli*) ; Rajdev Ram Cong.), (*Sahar–SC*) ; Ramesh Jha (Cong.), (*Saharsa*) ; Shiv Sharan Singh (Cong.), (*Sahebganj*) ; Hira Lal Paswan (Soc.), (*Sakra–SC*) ; Sahdeo Mahato (Cong.-(O)), (*Samastipur*) ; Ramjee Prasad Singh (J.S.), (*Sandesh*) ; Chandeshwar Prasad (JS.), (*Sarairanjan*) ; Satya Bhanu Singhdev (Cong.), (*Saraikela*) ; Kamdeo Prasad Singh (Cong.), (*Sarath*) ; Sukaru Bhagat (Cong.), (*Sasai–ST*) ; Ram Sevak Singh (H.S.D.) (*Sasaram*) ; Suraj Nath Choubey (Cong.), (*Shahpur*) ; Lok Nath Azad (CPI), (*Sheikhpura–SC*) ; Raghunath Jha (Cong.), (*Sheohar*) ; Jairam Giri (Cong.), (*Sherghati*) ; Sitaram Prasad (Cong.), (*Shikarpur–SC*) ; Shibu Murmu (Hul Jharkhand), (*Shikaripara–ST*) ; Faiyasul Azam (Ind.), (*Sikta*) ; Rameshwar Paswan (Cong.), (*Sikandra–SC*) ; Ram Ratan Ram (Cong.), (*Silli–SC*) ; Simon Tigga (Cong.), (*Simdega–ST*) ; Choudhary Md. Salauddin (Cong.), (*Simri Baktiarpur*) : A. K. Roy (Ind.), (*Sindri*) ; Ramjatar Paswan (CPI), (*Singhia SC*) : Ram Swaroop Singh (CPI), (*Sitamarhi*) ; Janardan Tiwari (J.S.), (*Siwan*) ; Sita Ram Mahto (Soc.), (*Sonbarsa*) ; Jageshwar Hazra (Soc.), (*Sonbarsa–SC*) : Ram Jaipal Singh Yadav (Cong.), (*Sonepur*) : Ramraksha Pd. Yadav (Cong.), (*Sultanganj*) ; Ajijul Haque (Soc.), (*Sugauli*) ; Uma Shankar Singh (Cong.), (*Supaul*) ; Sunaina Sharma (CPI), (*Surajgarh*) ; Ramcharitra Rai Yadav (Cong.), (*Sursand*).

Karpoori Thakur (SP), (*Tajpur*) ; Banmali Singh Munda (Cong.), (*Tamar–ST*) ; Prabhunath Singh (Cong.), (*Taraiya*) ; Tarni Prasad Singh (Cong.), (*Tarapur* ; Mohmmed Hussain Azad (Cong.), (*Thakurganj*) ; Shankar Dayal Singh (Cong.), (*Topchanchi*) ; Virsing Munda (Jharkhand, N. E. Horo Group), (*Torpa–ST*) ; Anup Lal Yaday (Soc.), (*Tribeniganj*) ; Satya Narayan Singh (Cong.), (*Tundi*) ; Laliteshwar Pd. Shahi (Cong.), (*Vaishali*) ; Chulhai Ram (Cong.), (*Warisnagar*) ; Shyamsunder Prasad Singh (Cong.-(O)), (*Warsaliganj*) ; Shankar Nath Vidyarthi (Ind.), (*Ziradei*) ; *Noninated* : H. A. Brown.

BIHAR LEGISLATIVE COUNCIL

Chairman : Abdul Gafoor.

Dy. Chairman : Dr. R. G. Singh.

Seats : 96. Party position : Congress 55 ; Congress (O) 5 ; United Block 2 ; Socialist party 6 ; Jan Sangh 5 ; Teachers 4 ; C.P.I. 3 ; Hul Jharkhand 1 ; Independent 13 ; Vacant 3. No. of woman members 6.

Graduates (6)

Maheshwari Singh 'Mahesh,' (Ind.) (*Bhagalpur-Cum-Saharsa-cum-Purnea*) ; Chetkar Jha (Cong.), (*Darbhanga*); Diwakar P. Singh (Ind.), (*Munger-cum-Santhal Pargana-cum-Hazaribagh-cum-Dhanbad*) ; Ram Ishwar Singh (Cong.), (*Patna*), Purnendu Narayan Sinha (Ind.), (*Patna*); Anil Kumar Sen (United Block), (*Ranchi-cum-Singhbhum-cum-Palamu*).

Teachers (8)

Vindheshwar Mishra (JS), (*Bhagalpur-cum-Saharsa-cum-Purnea*) ; Arun Kumar (Ind.), (*Gaya-cum-Sahabad*) ; Dr. Umeshwar Prasad Verma (Ind.), (*Monghyr*) ; Padamdeo Narayan Sharma (Ind.), (*Patna*) ; Mahendra Prasad (JS), (*Ranchi-cum-Singhbhum-cum-Palamu*) ; Sheo Chandra Jha (Cong.), (*Santhal Parganas-cum-Hazaribagh-cum-Dhanbad*) ; Kailash Singh (JS), (*Tirhut Division*) ; Brinda Prasad Roy 'Virendra' (JS), (*Tirhut Division*).

Local Authorities (31)

Sahdeo Jha (Cong.-O), (*Bhagalpur*) ; Ramsunder Tiwary (Cong.), (*Champaran*) ; Baidyanath Punjiyar (Cong.), (*Darbhanga*) ; Mahendra Pratap (Cong.). (*Hazaribagh*) ; Thakur Prasad Singh (Cong.). (*Monghyr*) ; Ram

Nath Gupta (Cong.), (*Muzaffarpur*); Raghunath Prasad (Cong.), (*Muzaffarpur*); Ram Lakhan Pandey (Cong.), (*Palamu*); Devasharan Singh (Cong.), (*Patna-cum-Gaya*); Kumar Jha (Cong.), (*Patna-cum-Gaya*); Ram Bilash Sharma, (Cong.-O), (*Patna-cum-Gaya*); Awadh Kumar Singh (Cong.-O), (*Patna-cum-Gaya*); Dinesh Kumar Singh (Cong.), (*Purnea*); Amanat Ali (Cong.), (*Ranchi*); Budhram Bhagat (Cong.), (*Ranchi*); Shankar Prasad Tekriwal (JS), (*Saharsa*); Tarachand Daruka (Cong.), (*Santhal Parganas*); Kashinath Gupta (Cong.), (*Saran*); Vishnu Shankar (Cong.), (*Shahabad*); Subodh Kumar Sen (United Block), (*Singhbhum*); R. N. Rao (Ind.), (*Singhbhum*); Shukdeo Shukla (Cong.), (*Saran*); Bhageshwar Prasad Rai (Cong.), (*Santhal Parganas*); Sitaram Chamariya (Cong.), (*Purnea*); Ram Nath (Cong.), (*Saran*); Raghuwansh Singh (Cong.), (*Dhanbad*); Shivshankar Katodia (Cong.), (*Champaran*); Indra Kumar (SP), (Shahbad); Ram Lakhan Gupta (JS), (*Munger*); Ram Kumar Purve (CPI), (*Darbhanga*); Rajkumar Mahaseth (Ind.), (*Darbhanga*); Saraswati Devi (Ind.), (*Patna-cum-Gaya*); Ramvilas Jha (Ind.), (*Muzaffarpur*).

Legislative Assembly (31)

A. A. Mohamed Noor (Cong.); Abdul Gafoor (Cong.); Abdus Sami Nadavi (Cong.); Chandrika Ram (Cong.); Dip Narayan Choudhary (Cong.); Gajendra Prasad Singh (Cong.); Indradip Singh (C.P.I.); Jagannath Singh (Cong.); Jageshwar Mandal (Cong.-O); Jamuna Prasad Singh (Cong.); Justin Rechard (Hul Jharkhand); Kishori Devi (Cong.); Manjay Lal (SP); Mungeri Lal (Cong.); Rajeshwari Saroj Das (Cong.); Ram Govind Singh (Cong.); Ram Kripal Sinha (JS); Ram Prakash Roy (Cong.); Ram Sunder Das (SP); Ranjan Ali (SP); Rewatikant Singh (SP); Rudra Pratap Sarangi (JS); Sudama Mishra (Cong.); Jaglal Chaudhari (Cong.); Jagdish Narayan Chaube (Cong.); Ramnandan Singh (Cong.); Sadhu Sharan Singh (Cong.); Manorama Devi (Cong.); Ramakant Jha (Cong.); Ramnika Gupta (Cong.); Shaffi Kullah Ansari (Cong); Krishna Kant Singh (Cong.-O); Kamla Devi (SP); Jagbandhu Adhikari (JS); Krishnachandra Chaudhari (CPI).

Nominated (12)

Ahmadi Sattar (Cong.); Fazlur Rahman (Cong.); Harman Lakra (Cong.); Jaideo Prasad (Cong.); Kunwar Ram (Cong.); Lady Anise Imam (Ind.); Mohamed Shah Umair (Cong.); Shrikant Thakur Vidyalankar (Ind.); Yogendra Mahto (Cong.); Pramila Jha (Cong.); Premnarayan Gadhwal (Cong.); Sudhanshu Kumar Ghosh (Ind.).

DELHI METROPOLITAN COUNCIL

Chief Executive Councillor : Radha Raman.

Total Seats : 56. *Electorate :* 2,056,402; *Votes polled :* 1,403,061.

Party position : Congress : 44; Jana Sangh : 5; Communist Party : 3; Congress Organisation : 2; Muslim League : 1; Independent : 1. Woman members : 3.

Mirza Siddiq Ali (Cong.), (*Ajmeri Gate*); Krishan Swarup (Cong.), (*Anand Parbhat*); Ram Chander Sharma (C.P.I.), (*Arya Pura*); Rajinder Kumar Tanwar (Cong.), (*Ashok Nagar*); Mool Chand (Cong.), (*Badli-SC*); Dr. Mohd. Ahmed (Muslim League), (*Ballimaran*); A. L. Ralia Ram (Cong.), (*Barakhamba Road*); Parbhu Dayal (Cong.), (*Basti Julahan*); Tek Chand (Ind.), (*Bawana*); Rama Shankar (Cong.), (*Chandni Chowk*); Anwar Ali Delhuri (J.S.), (*Chawri Bazar*); Mehtab Chand Jain (Cong.), (*Dariba*); Daljit Kumar Tandon (J.S.), (*Daryaganj*); Inder Singh Azad (Cong.), (*Gandhinagar*); Brij Lal Goswami (Cong.), (*Geeta Colony*); Hargian Singh (Cong.), (*Ghonda*); Ashok Chatterjee (Cong.), (*Gole Market*); Pravesh Chandra (Cong.), (*Jangpura*).

Rajesh Sharma (Cong.-O), (*Kala Masjid*); V. P. Singh (Cong.), (*Kalkaji*); Parshottam Lal Goel (Cong.), (*Kamala Nagar*); Dr. Roshan Lal (Cong.), (*Kasabpura*); C. L. Balmiki (Cong.), (*Kasturba Nagar*); Om Prakash Bahl (Cong.), (*Kashmiri Gate*); B. D. Joshi (C.P.I.), (*Kishan Ganj*); Mrs. Archana Kumar (Cong.), (*Lajpat Nagar*); Arjun Dass (Cong.), (*Lakshmibai Nagar*); Sikandar Bakhat (Cong.-O), (*Matia Mahal*); Miss Surinder Saini (Cong.), (*Minto Road*); Bansi Lal Chauhan (Cong.), (*Motia Khan*); K. C. Malik (Cong.), (*Motinagar*); Hukam Singh (Cong.), (*Najafgarh*); Bhagat Singh (Cong.), (*Nangloi*); Heer Singh (Cong.), (*Narela*).

Madan Lal Khurana (J.S.), (*Pahar Ganj*); Mange Ram (Cong.), (*Palam*); Vijay Kumar Malhotra (J.S.), (*Patel Nagar*); Ved Prakash (Cong.), (*Pratap Nagar*); Pushpa Devi Gupta (Cong.), (*Prithvi Raj Road*); Thakur Das (Cong.), (*Rajinder Nagar*); Jagdish Chander (Cong.), (*Ramakrishna Puram*); Satya Prakash (Cong.), (*Ramnagar*).

Sunderwati Nawalprabhakar (Cong.), (*Rehgarpura*); Iqbal Singh (Cong.), (*Sarai Rohilla*); P. N. Singh (Cong.), (*Sarojini Nagar*); Ram Narain (Cong.), (*Shahdara*); Radhi Lal Gupta (Cong.), (*Shakti Nagar*); Shri Chand (C.P.I.), (*Shakur Basti*); Manmohan Singh (Cong.), (*Subhash Nagar*); P. R. Mittal (Cong.), (*Tibbia College*); Amar Nath Malhotra (Cong.), (*Timarpur*); Prem Singh (Cong.), (*Tughlakabad–SC*); B. D. Wadhwa (Cong.), (*Vijay Nagar*).

GOA LEGISLATIVE ASSEMBLY

Speaker : N. S. Fugro.

Dy. Speaker : Chandrakant Uttam Chodankar.

Seats : 30. An estimate of Party position is : Maharashtra Gomantak : 18; United Goans : 10; Congress : 1; Independent : 1. Woman members : Nil.

J. S. D'Souza (U.G.), (*Aldona*); V. N. Sarmalkar (U.G.), (*Benaulim*); S. G. Kakodkar (M.G.), (*Bicholim*); Jagdish Bhujang Rao (U.G.), (*Calangute*); Ganaba Bhagdu Desai (M.G.), (*Canacona*); L. P. A. Barbosa (U.G.), (*Cortalim*); Roque Santana Joao Fernandes (U.G.), (*Cuncolim*); P. A. H. Desai (M.G.), (*Curchorem*); E. Falerio (U.G.), (*Curtorim*); Haribhai Tandal (Cong.), (*Daman*); Narayan Srinivas Fugro (Ind), (*Diu*); Bandodkar, Dayananda Balkrishna (M.G.), (*Madrem*); Raghuvir Shanu Pankar (M.G.), (*Mapuca*); Ananta Narcinva Naik (U.G.), (*Margao*); Vasant Joshi (M.G.), (*Mormugao*); Leo Mauricio Velho (U.G.), (*Navelim*).

A. K. S. Usgaonkar (M.G.), (*Pale*); Baban Naik (M.G.), (*Panaji*); Jaisingrao Abasaheb Rane (M.G.), (*Pernem*); R. H. Naik (M.G.), (*Ponda*); Dhulo Kuttikar (M.G.), (*Quepem*); Vasudev Datta Morajkar (M.G.), (*Sanguem*); Teotonio Pereira (U.G.), (*Santo Andre*); Sequeira, Dr. Jack De Erasmo (U.G.) (*Santa Cruz*); P. R. R. Sardesai (M.G.), (*Satarai*); V. D. Chodankar (M.G.), (*St. Estevam*); C. Chodankar (M.G.), (*Siolim*); J. P. Naik (M.G.), (*Siroda*); Punaji Acharekar (M.G.), (*Tivim*).

GUJARAT LEGISLATIVE ASSEMBLY

Speaker : Raghavji T. Leuva.

Dy. Speaker : R. E. Parmar.

Seats : 168; *Electorate :* 12,431,064. An estimate of party position is as follows: Congress 140; Congress (Organisation) 16; Jan Sangh 3; Communist Party of India 1; Independent 8; Woman members : 6.

Khimji Nagji Patel (Cong.), (*Abdasa*); K. P. Shah (Cong.), (*Alia*); Narsinhdas Gordhandas Gondhiya (Cong. O.), (*Amreli*); Amarsinhji B. Vaghela (Cong.), (*Anand*); Jesang Kheemji (Cong.), (*Anjar*); H. B. Mahida (Cong.), (*Ankleshwar*); Maganbhai R. Barot (Cong.), (*Asarwa*); Jivrajbhai M. Vagadia (Cong.), (*Babra*); Chhatrashinh A. Solanki (Cong.), (*Balasinor*); Ratanbhai G. Gavit (Cong.), (*Bansda—S.T.*); B. V. Patel (Cong.), (*Bardoli*); Dr. Bhanuprasad V. Pandya (Cong.), (*Bavla—S.C.*); Lalsinji K. Rahevar (Cong. O), (*Bayad*); Madhavsinh F. Solanki (Cong.), (*Bhadran*); Piyush D. Thakore (Cong.), (*Bharuch*); Manubhai G. Vyas (Cong.), (*Bhavnagar*); Mulshankar R. Suthar (Cong.), (*Bhiloda*); Ramji Raghavji Thacker (Cong.), (*Bhuj*); Umedbhai Fatehsinh Gohel (Cong.), (*Borsad*); P. G. Gohil (Cong.), (*Botad*); Keshavbhai R. Patel (Cong. O), (*Bulsar*).

Madhavlal B. Shah (Cong.), (*Cambay*); Bhagwandas N. Amin (J.S.), (*Chanasma*); K. Bodabhai Rathava (Cong.), (*Chhota Udepur—S.T.*); Ratanji K. Patel (Cong.), (*Chikhli—S.T.*); C. N. Contractor (Cong.), (*Chorasi*); Karamshibhai K. Makwana (Cong.), (*Chotila*); K. J. Chauhan (Cong.), (*Dabhoi*); Laljibhai R. Karen (Cong.), (*Danta*); Manubhai H. Palkhiwala (Cong.), (*Dariapur Kazipur*); Balbhadrasinhji Indrasinhji Jhala (Cong.), (*Dasada*); Ramanlal Mathurbhai Patel (Cong.), (*Daskroi*); Ramjibhai Hirabhai Vasava (Cong.), (*Dediapada—S.T.*); Bhikhaji P. Parmar (Cong.), (*Deesa*); Ghanshyambhai C. Oza (Cong.), (*Dehgam*); Gulabsinhji V. Vaghela (Cong.), (*Deodhar*); Jaideepsinhji (Ind.), (*Devgadh-Baria*); Babubhai U. Modi (Cong.), (*Dhandhuka*); Dalubhai S. Desai (Cong.), (*Dhanera*); R. B. Jadav (Cong. O), (*Dharampur—S.T.*); R. T. Leuva* (Cong.), (*Dhari Kodinar—S.C.*); Parshottambhai R. Makwana (Cong.), (*Dholka*); Nathalal G. Patel (Cong.), (*Dhoraji*); Nagindas M. Shah (Ind.), (*Dhrangadhra*); Mrs. Hasumati B. Gudiyar (Cong.), (*Dohad*); Markhi J. Goriya (Cong.), (*Dwarka*).

Mrs. Kokila H. Vyas (Cong.), (*Ellisbridge*); Laxmanbhai D. Patel (Cong.), (*Gadhada*); Dr. Amul M. Desai (Cong.), (*Gandevi*); Narendrasinh A. Jhala (Cong.), (*Gandhinagar*); Pratap T. Shah (Cong.), (*Ghogha*); Somalal N. Shirodia (Cong.), (*Godhra*); Popatbhai Lakhabhai Sorathiya (Cong.), (*Gondal*); Mrs. Bhadraben Shiris L. Kumar Pandya (Cong.), (*Halol*); Shankerbhai D. Patel (Cong.), (*Himmatnagar*); M. R. Bhambi (Cong.), (*Idar—S.C.*); C. D. Patel (Cong.), (*Jalalpore*); A. T. Kundiwala (Cong.), (*Jamalpur*); M. Bhukanbhai (Cong.), (*Jambusar*); Gordhan Ravji Faldu (Cong.), (*Jam-Jodhpur*); Liladhar P. Patel (Ind.), (*Jamnagar*); Prabhatgiri G. Gonsai (Cong.), (*Jasdan*); M. C. Rathava (Cong. O), (*Jetpur—S.T.*); Jamnadas S. Vekaria (Cong.), (*Jetpur*); Chimanlal Karsandas (Cong.), (*Jhagadia—S.T.*); Virjibhai L. Munia (Cong.), (*Jhalod—S.T.*); B. B. Patel (Ind.), (*Jodiya*); Bhavsinhji D. Jhala (Cong. O), (*Jotana*); Divyakant Kundanlal Nanavati (Cong.), (*Junagadh*).

Govindbhai S. Parmar (Cong.), (*Kadi—S.C.*); Bhimjibhai V. Patel (Cong.) (*Kalavad*); Arjunsinh B. Rathod (Cong.), (*Kalol*); Maneklal M. Gandhi (Cong. O), (*Kalol*); Prabodh C. Raval (Cong.), (*Kalupur*); Narsinhbhai K. Makwana (Cong.), (*Kankaria—S.C.*); Shantilal C. Dhandhara (Cong.), (*Kankrej*); Budhaji J. Chauhan (Cong. O), (*Kapadwanj*); Mrs. Parvatiben L. Rana (Cong.), (*Karjan—S.C.*); A. F. Dabhi (Cong.), (*Kathlal*); Thakarshi Dhanji Patel (Cong.), (*Keshod*); Dr. Ajitkumar P. Patel (Cong.), (*Khadia*); Hematbhai Madan (Ind.), (*Khambhalia*); Muljibhai S. Dabhi (Cong.), (*Khedbrahma—S.T.*); Shankarji O. Thakore (Cong.), (*Kheralu*); Navinchandra P. Ravani (Cong.), (*Kundla*); A. V. Nandania (Cong.), (*Kutiyana*); Gokaldas M. Patel (Cong.), (*Lathi*); H. R. Doriya (Cong.), (*Limbdi*); Somjibhai P. Damor (Cong.), (*Limbdi—S.T.*); Virsing G. Mohania (Cong. O), (*Limkheda—S.T.*); Dahyabhai K. Bhatt (Ind.), (*Lunavada*).

Harmanbhai N. Patel (Cong. O), (*Mahudha*); Manchharam N. Patel (Cong.), (*Mahuva—S.T.*); Chabildas Mehta (Cong.), (*Mahuva*); Masari K. Sevara (Cong.), (*Malia*); Devji B. Vanvi (Cong.), (*Manavadar—S.C.*); Noshir D. Dastur (Cong.), (*Mandvi*); V. M. Chaudhary (Cong.), (*Mandvi—S.T.*); Mrs. Ayasha Begam M. Sheikh (Cong.), (*Mangrol*); Smt. D. R. Rathod (Cong.), (*Mangrol—S.T.*); Motibhai R. Chaudhary (Cong. O), (*Mansa*); Smt. Gangaben Amrutlal Vaghela (Cong.), (*Matar—S.C.*); Jethalal Chandulal Gandhi (Cong.), (*Meghraj*); Fulsinjhi M. Solanki (Cong. O), (*Mehmedabad*); Dayasankar V. Trivedi (Cong.), (*Mehsana*); Ambalal J. Upadhyaya (Cong.), (*Modasa*); Maganlal T. Somaiya (Cong.), (*Morvi*); B. S. Dhanpalia (Cong.), (*Mota Pondha—S.T.*); Meghji S. Motharia (Cong.), (*Mundra—S.C.*); Bhabubhai Bhikhabhai Desai (Cong.), (*Nadiad*); H. M. Rajwadi (Cong.), (*Nandod—S.T.*); Vishindas M. Motiani (Cong.), (*Naroda*); Meghabhai J. Bhil (Cong.), (*Naswadi—S.T.*); Dinkerbhai B. Desai (Cong.), (*Navsari*).

B. D. Patel (Cong.), (*Olpad*); Manubhai C. Patel (Cong.), (*Padra*); Lakhraj Hemrajbhai Bachani (J.S.), (*Palanpur*); Batukrai H. Vora (C.P.I.), (*Palitana*); Uttambhai H. Patel (Cong.), (*Pardi—S.T.*); Nathabhai Ratanbhai Desai (Cong.), (*Patan*); Prabhudas S. Patel (Cong.), (*Petlad*); Maldevji M. Odedra (Cong.), (*Porbandar*); G. V. Patel (Cong.), (*Prantij*); Mrs. Nirmala L. Zaveri (Cong.), (*Radhanpur*); Mansukhbhai C. Joshi (Cong.), (*Rajkot-I*); Manohar Singhji P. Jadeja (Cong.), (*Rajkot-2*); J. N. Mehta (Cong.), (*Rajula*); Kantilal F. Ghiya (Cong.), (*Rakhial*); Dr. Thakorbhai V. Patel (Cong.), (*Raopura*); Premchand Utamchand Morabia (Cong.), (*Rapar*); Rameshchandra Eukal Parmar* (Cong.), (*Salia*); Karsanbhai Haribhai Chaudhary (Cong.), (*Sami*); Rudradattasinhji J. Waghela (Cong.), (*Sanand*); Chimanbhai J. Patel (Cong.), (*Sankheda*); Jivabhai M. Damor (Cong.), (*Santrampur*); Govindbhai J. Patel (Cong.), (*Sarsa*); Manibhai A. Shah (Cong.), (*Savli*); Sanat Maganlal Mehta (Cong.), (*Sayajiganj*); Dr. Vasudeo N. Tripathi (Cong.), (*Shahpur*); Chimanbhai J. Patel (Cong.), (*Shankheda*); Pratapsinh H. Patel (Cong.), (*Shehra*); Vithalbhai Dosabhai Patel (Cong. O.), (*Sidhpur*); H. A. Gohil (J.S.), (*Sihor*); Dadusinh Chhagansinh (Cong.), (*Sojitra*); Keshar Dodia (Cong.), (*Somnath*); B. F. Vasava (Cong.), (*Songadh—S.T.*); Gordhandas R. Chokhawala (Cong.), (*Surat City East*); Krushnavadan D. Pachigar (Cong.), (*Surat City North*); Jaswantsinh D. Chauhan (Cong.), (*Surat City West*).

Mahasukhrai K. Bhatt (Cong.), (*Talaja*); Govind Jetha Boda (Ind.), (*Tankara*); Ghanshambhai A. Pandit (Cong.), (*Thasra*); Kikalabhai J. Varli (Cong.), (*Umbergaon—S.T.*); Udesinh V. Vadodiya (Cong.), (*Umreth*); Ratubhai M. Adani (Cong.), (*Una*); Shankarlal M. Guru (Cong.), (*Unjha*); G. K. Patel (Cong.), (*Upleta*); Chandrakant Muljibhai Parikh (Cong.), (*Vadodara City*); Govindbhai Bapubhai Patel (Cong.), (*Vadodara Rural*); Rana F. Pratapsinhji (Cong.), (*Vagra*); Daulatbhai C. Parmar (Cong.), (*Vav—S.C.*); Gangaram C. Raval (Cong.), (*Vijapur*); Kantilal E. Patel (Cong. O), (*Viramgam*); Ramjibhai D. Karkar (Cong.), (*Visavadar*); Jagannath Mulshanker Vyas (Cong. O), (*Visnagar*); A. B. Chaudhari (Cong.), (*Vyara—S.T.*); Hasmukhlal M. Vora (Cong.), (*Wadhwan*); Dhirajlal D. Jayswal (Cong.), (*Waghodia*); Dr. Abdulmutalib K. Pirzada (Cong.), (*Wankaner*).

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* Speaker has no party affiliation.

HARYANA VIDHAN SABHA

Speaker : Banarsi Das Gupta.

Dy. Speaker : Mrs. Lekhwati Jain.

Seats : 81. *Electorate :* 5,091,082; *Votes polled :* 3,587,048. *Party position :* Congress: 52; Congress (O) 5; Jana Sangh: 2; Vishal Haryana Party: 3; P.I.P.: 11; Independents: 7; Vacant: 1; Woman members: 5.

Bhajan Lal (Cong.), (*Adam Pur*); Mrs. Lekhwati Jain (Cong.), (*Ambala City*); Hans Raj Suri (Cong.), (*Ambala Cantt.*); Banshi Singh (V.H.P.), (*Ateli*); Chand Ram (Ind.), (*Babain–SC*); Mrs. Lajja Rani (Cong.), (*Badhra*); Hardwari Lal (P.I.P.), (*Bahadurgarh*); Mehar Chand (Cong.), (*Badopal*); Smt. Sharda Rani (Cong.), (*Ballabgarh*); Shyam Chand (Cong.), (*Baroda–SC*); Pir Chand (Cong.-O), (*Barwala–SC*); Ram Parshad (Cong.), (*Bawal—SC*); Amar Singh (V.H.P.), (*Bawanikhera–SC*); Pratap Singh Daulata (Ind.), (*Beri*); Banarsi Das Gupta* (Cong.), (*Bhiwani*); Prabhu Ram (Cong.), (*Chhachrauli–SC*); Gordhan Das (Cong.), (*Dabwali–SC*); Ganpat Rai (Cong.-O), (*Dadri–SC*).

Brij Lal (Cong.), (*Ellenabad*); Kanwal Nain Gulati (Ind.), (*Faridabad*); Pokar Ram Godara (Cong.), (*Fatehbad*); Abdul Razak Khan (P.I.P.), (*Ferozepur Jhirka*); Rulya Ram (P.I.P.), (*Gharunda*); Ram Dhari Gaur (Cong.), (*Gohana*); Mahabir Singh Yadav (Cong.), (*Gurgaon*); Ishar Singh Saini (P.I.P.), (*Hansi*); Bihari Lal Balmiki (Cong.), (*Hassanpur–SC*); Maru Singh (Cong.), (*Hassangarh*); Ramjilal (Ind.), (*Hathin*); Gulab Singh Jain (Cong.), (*Hissar*); Prasanni Devi (Cong.), (*Indri*); Om Parkash (Ind.), (*Jagadhri*); Maha Singh (Cong.), (*Jatusana*); Dal Singh (Cong.-O), (*Jind*); Manphool Singh (P.I.P.), (*Jhajjar*); Fateh Singh (Cong.), (*Julana*); Ram Kishan Azad (Cong.), (*Jundla–SC*).

Pratap Singh Tiagi (Ind.), (*Kailana*); Charan Das (Ind.), (*Kaithal*); Satram Dass Batra (Cong.), (*Kalanaur*); Bhagat Ram (P.I.P.), (*Kalayat–SC*); Kishori Lal (Cong.), (*Kalka*); Dalip Singh (V.H.P.), (*Kanina*); Ram Lal Wadhwa (J.S.), (*Karnal*); Shreyo Nath (Cong. O), (*Kiloi*); Mrs. Chandrawati (Cong.), (*Loharu*); Gauri Shankar (P.I.P.), (*Marwana*); Umed Singh (P.I.P.), (*Meham*); Nihal Singh (Cong.), (*Mehendergarh*); Phool Chand (Cong.), (*Mullana–SC*); Sarup Singh (Cong.), (*Mundhal Khurd*); Harmohinder Singh Chatha (Cong.), (*Naggal*); Jagjit Singh Tihka (Cong.), (*Naraingarh*); Ram Saran Chand Mittal (Cong.), (*Narnaul*); Joginder Singh Sheoran (Cong.), (*Narnaund*); Mansa Ram (Cong.), (*Naultha*); Shiv Ram Verma (J.S.), (*Nilokheri*); Rahim Khan (P.I.P.), (*Nuh*).

Shamlal (P.I.P.), (*Palwal*); Hakumat Rai (Cong.), (*Panipat*); Sis Ram (Cong.), (*Pataudi*); Piara Singh (Cong.), (*Pehowa*); Ishwar Singh (Cong.), (*Pundri*); Vacant, (*Rai*); Jogi Ram (P.I.P.), (*Rajaund—S.C.*); Abhey Singh (Cong.), (*Rewari*); Phool Chand (Cong. O), (*Rohat–SC*); Shrikishan Das (Cong.), (*Rohtak*); Harkishan Lal Kamboj (Cong.), (*Rori*); Dhajja Ram (Cong.), (*Safidon*); Phul Singh Kataria (Cong.), *Salhwas–SC*); Hari Singh (Cong.), (*Sambalka*); Prem Sukh Das (Cong.), (*Sirsa*); Amir Chand Kakar (Cong.), (*Shahabad*); Surjit Singh Mann (Cong.), (*Sherhada*); K. L. Poswal (Cong.), (*Sohna*); Chiranji Lal Sharma (Cong.), (*Sonepat*); Om Prakash Garg (Cong.), (*Thanesar*); Harpal Singh (Cong.), (*Tohana*); Bansi Lal (Cong.), (*Tosham*); Girish Chander Joshi (Cong.), (*Yamunanagar*).

P.I.P. — Progressive Independent Party.

* Speaker has no party affiliation.

HIMACHAL PRADESH VIDHAN SABHA

Speaker : Kultarchand.

Seats : 68; *Electorate* 1,804,435. *Party position :* Congress 53; Jan Sangh 5; Communist Party of India (Marxists) 1; Lok Raj Party 2; Independents: 7. Woman Members: 4.

Hira Singh Pal (Lok Raj), (*Arki*); Sant Ram (Cong.), (*Baijnath*); Tulsi Ram (C.P.M.), (*Balh—S.C.*); Mrs. Chandresh Kumar (Cong.), (*Bamsan*); Des Raj (Cong.), (*Banikhet*); Kashmiri Lal (Cong.), (*Beet*); Siri Ram Gaddi (Cong.), (*Bharmour—ST*); Mrs. Padma (Cong.), (*Bhattiyal*); Kishori Lal (Cong.) (*Bilaspur*); Karam Singh (Cong.), (*Chachiot*); Kishori Lal (J.S.), (*Chamba*); Onkar Chand (Cong.), (*Chintpurni*); Ram Singh (Ind.), (*Chauntra*); Kewal Ram Chauhan (Cong.), (*Chopal*); Bhikram Ram (Ind.), (*Dharampur*); Chander Verkar (Cong.), (*Dharamsala*); Lekh Ram (Cong.), (*Doon*).

Dhinoo Ram (Cong.), (*Gangeth—S.C.*); Mehnga Singh (Cong.), (*Gagret—S.C.*); Nikku Ram (Cong.), (*Gherwin—S.C.*); Sita Ram (Cong.), (*Ghumarvin*); Dalip Singh (Cong.), (*Garli—S.C.*); Rangila Ram (Ind.), (*Gopalpur*); R. C. Verma (Cong.), (*Hamirpur*); Salig Ram (Cong.), (*Jaswan*); Mela Ram Saver (Ind.), (*Jawalamukhi*), Vikram Singh (Cong.), (*Jawali*); Parkash Chandra (Cong.), (*Jogindernagar*); Ram Lal (Cong,), (*Jubbal-Kotkhai*); Bhagwan Singh (Cong.), (*Kandaghat—S.C.*); Hari Ram (Cong.), (*Kangra*); Mansa Ram (Cong.), (*Karsog—S.C.*); R. Shonkia Ram (Cong.), (*Kasumpti—S.C.*); Shanta Kumar (J.S.), (*Khera*); T. S. Negi (L.R.P.), (*Kinnaur—S.T.*); Kuldip Singh (Cong.), (*Kot Kehloor*); Lal Chand Prarthi (Cong.), (*Kulu*); Jai Bihari Lal Khachi (Ind.), (*Kumarsain*); Sarla Sharma (Cong.), (*Kutlehar*); Smt. Lata Thakur (Cong.), (*Lahaul-Spiti—S.T.*); Sukh Ram (Cong.), (*Mandi*); Dr. Chura Mani (Cong.), (*Mangwal*); Dharam Singh (Cong.), (*Mewa—S.C.*).

Babu Ram (Cong.), (*Nadaun*); Bishan Datt Lakhanpal (Cong.), (*Nadaunta*); Hardial (Cong.), (*Nagrota*); Sunder Singh Thakur (Cong.), (*Nahan*); Arjan Singh (Cong.), (*Nalagarh*); Kewal Singh (Ind.), (*Nurpur*); Zelan Singh (Cong.), (*Pachhad—S.C.*); Kunj Bihari Lal Butail (Cong.), (*Palampur*); Hitinder Singh (Cong.), (*Paonta-Doon*); Y. S. Parmar (Cong.), (*Rainka*); Wazir Chand (Cong.), (*Rajgir—S.C.*); Vidya Dhar (Cong.), (*Rajnagar*); Nek Ram Negi (Cong.), (*Rampur*); Amrit Singh Rathore (Cong.), (*Rohni*); Ram Rakha (Cong.), (*Santokhgarh*); Dile Ram Shabab (Cong.), (*Seraj-Inner*); Ishar Dass (Cong.), (*Seraj-Outer*); Kultar Chand Rana (Cong.), (*Shahpur*); Ghuman Singh Chauhan (Cong.), (*Shillai*); Daulat Ram Chauhan (J.S.), (*Simla*); Krishan Dutt (Ind.), (*Solan—S.C.*); Durga Chand (J.S.) (*Sulah*); Ganga Singh (J.S.), (*Sundernagar*); Lal Chand Stookes (Cong.), (*Theog*); Parkesh Chand (Cong.), (*Una*).

JAMMU AND KASHMIR LEGISLATIVE ASSEMBLY

Speaker : Abdul Gani Goni.

Seats : 75. *Electorate :* 2,113,862 ; *Votes polled :* 1,406,098. *Party position :* Congress 58 ; Jamiat Islami 5 ; Jana Sangh 3 ; Independents 9. Woman Members : 4.

Dharampal (Cong.), (*Akhnoor*) ; Mrs. Zainub Begum (Cong.), (*Amira Kadal*) ; Shamsuddin (Cong.), (*Anantnag*) ; Ali Mohd Mir (Cong.), (*Badgam*) ; Mohd. Anwar Khan (Cong.), (*Bandipora*) ; Mrs. Hajra Begum (Cong.), (*Banihal*) ; Mohd. Maqbool Mahoo (Cong.), (*Baramulla*) ; Mangat Ram (Cong.), (*Basohli*) ; Abdul Khaliq Mir (Cong.), (*Beerwa*) ; Bodh Raj Summon (Cong.), (*Bhaderwah—S.C.*) ; Saif-Ud-Dinn Dar (Cong.), (*Bijbehara*) ; Randhir Singh (Cong.), (*Billawar*) ; Parmanand (Cong.), (*Bishna—S.C.*) ; Gulam Mustafa Mir (Cong.), (*Chadura*) ; Abdul Qayoom (Cong.), (*Charar-i-Sharif*) ; Divakar Singh (Cong.), (*Chamb*).

Abdul Rashid (Cong.), (*Darhal*) ; Ghulam Hassan Perrey (Ind.), (*Devsar*) ; Hans Raj Dogra (Cong.), (*Doda*) ; Mohammed Maqbool Bhat (Cong.), (*Ganderbal*) ; Mohammad Ayub Khan (Cong.), (*Ghulab Garh*) ; S. Surrinder Singh (Cong.), (*Gulmarg*) ; Ghulam Mohammad Bhat (Ind.), (*Haba Kadal*) ; Abdul Gani Lone (Cong.), (*Handwara*) ; Abdul Gani Mir (Cong.), (*Haril*) ; Sofi Ghulam Ahmed (Ind.), *Hazaratbal*) ; Abdul Gani Goni* (Cong.), (*Inderwal*) ; Trilochan Dutta (Cong.), (*Jammu Cantt.*) ; Abdul Rahman (J.S.), (*Jammu North*) ; Chaman Lal Gupta (J.S.), (*Jammu South*) ; Miss Shanta Bharti (Cong.), (*Jandra-Gharota*) ; G. L. Dogra (Cong.), (*Jasmargarh*).

Bashir Ahmed Mian (Cong.), (*Kangan*) ; Kachoo Mohamed Ali (Cong.), (*Kargil*) ; Mohammad Yasin Shah (Cong.), (*Karnah*) ; Punjab Singh (Cong.), (*Kathua—S.C.*) ; Saif-ud-Din Kari (Jam-i-Isl.), (*Khanyar*) ; Ghulam Qadir War (Cong.), (*Khansaheb*) ; Nizam-ud-Din (Cong.), (*Kishtwar*) ; Mohd. Ashraf Khan (Cong.), (*Kothar*) ; Abdul Razak Mir (Jam-i-Isl.), (*Kulgam*) ; Ghulam Mohamed Shah (Cong.), (*Kupwara*) ; Sonam Wangyal (Cong.), (*Leh*) ; Saif-Ullah Bhat (Cong.), (*Lolab*) ; Sushil Kumar (Cong.), (*Marh—S.C.*) ; Mohammad Aslam (Cong.), (*Mendhar*) ; Ali Mohamed Dar (Jam-i-Isl.), (*Nandi*) ; Abdul Azia Zargar (Cong.), (*Noorabad*) ; Hisamuddin (Cong.), (*Nowbug*) ; Beli Ram (Cong.), (*Nowshera*) ; M. L. Fotedar (Cong.), (*Pahalgam*) ; Pir Ghulam Hassan Massodi (Cong.), (*Pampore*) ; Ghulam Qadir Bedar (Cong.), (*Pattan*) ; Ghulam Mohammad (Cong.), (*Poonch*) ; Sonaullah Dar (Cong.), (*Pulwama*).

Mohd. Yusuf Dar (Cong.), (*Rafiabad*) ; Talib Hussain (Cong.), (*Rajouri*) ; Bashir Ahmed Magrey (Cong.), (*Rajpora*) ; Mohd. Akatar Nizami (Cong.), (*Ramban*) ; Baldev Sharma (Cong.), (*Ramgarh*) ; Chandu Lal (Cong.), (*Ramnagar—S.C.*) ; Rangil Singh (Cong.), (*Ranbir Singh Pora*) ; Rishi Kumar Kaushal (J.S.), (*Reasi*) ; Abdul Rashid Kabli (Ind.), (*Safa Kadal*) ; Gauri Shankar (Cong.), (*Samba—S.C.*) ; Abdul Majid Bandey (Ind.), (*Shopian*) ; Abdul Aziz Parrey (Cong.), (*Sonawari*) ; Syed Ali Shah Geelani (Jam-i-Isl.), (*Sopore*) ; Ghulam Nabi Nowsheri (Jam-i-Isl.), (*Tankipora*) ; Smt. Nirmala Devi (Cong.), (*Tikri*) ; Ali Mohammad Naik (Ind.), (*Tral*) ; Dev Datt Sharma (Cong.), (*Udhampur*) ; Mohammed Shafi (Ind.), (*Uri*) ; Syed Mir Qasim (Cong.), (*Verinag*) ; Salim Anwar (Ind.), (*Zadibal*).

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* Speaker has no party affiliation.

JAMMU AND KASHMIR LEGISLATIVE COUNCIL

Dy. Chairman : Chuni Lal Sharma.

Strength : 36. Woman member : one.

Legislative Assembly : Syed Nazir Hussain Samnani, Janak Raj, L. S. Charak, Mohammad Iqbal, Ghulam Mustafa, Amir Ullah Khan, Sana Ullah Bodha, Sona Ullah Banihali, Ghulam Mohammad Misgar, G. R. Sofi, Sain Dass, G. M. Lone, P. Namgial, Mufti Mohamed Syed, Aga Ibrahim Shah, S. L. Mahajan, Ghulam Mohamed Mir, Fateh Mohamed, Bir Ghansara, G. R. Kar, Smt. Prakash Rani.

Local Authorities : P. L. Karihalloo, Vacant 1.

Panchayat Constituency : Moti Ram Baigra, Ghulam Ahmed Beg, Vacant 2.

Nominated : Mohammad Din Bandey, Chudri Mohammad Shafi, Ram Chand Mahajan, Sewa Ram Parihar, S. Gurmukh Singh, Vacant 3.

KERALA LEGISLATIVE ASSEMBLY

Speaker : K. Moideen Kutty Haji ; *Deputy Speaker :* R. S. Unni.

Seats : 134 ; No. of women : 2. *Party Position :* Cong. 33 (including one nominated member) ; C.P.I. (M) 31 ; C.P.I. 16 ; K. Cong. 13 ; Muslim League 10 ; S.P. 8 ; R.S.P. 6 ; Cong. (O) 3 ; Kerala S.P. 2 ; P.S.P. 2 ; Cong. S.P. 2 ; Karshaka Thozhilali Party 2 ; Independents 2 ; P.S.P. (National) 2 ; Vacant 2.

Thengamom Balakrishnan (C.P.I.), (*Adoor*) ; J. A. Chacko (K. Cong.), (*Akalakunnam*) ; R. Krishnan (C.P.I.-M.), (*Alathur*) ; T. V. Thomas (C.P.I.), (*Alleppey*) ; A. A. Kochunny (Cong.), (*Alwaye*) ; V. S. Achuthanandan (C.P.I.-M.), (*Ambalapuzha*) ; A. P. Kurian (C.P.I.-M.), (*Ankamali*) ; P. N. Chandrasenan (C.P.I.-M.), (*Aranmula*) ; Smt. K. R. Gouri (C.P.I.-M.), (*Aroor*) ; K. Somasekharan Nair (S.P.), (*Aryanad*) ; Vakkom Purushothaman (Cong.), (*Attingal*) ; M. Krishnan (S.P.), (*Badagara*) ; A. C. Shanmukhadas (Cong.), (*Balusseri*) ; K. Chathunny Master (C.P.I.-M.), (*Beypore*).

P. V. Shankaranarayanan (Cong.), (*Calicut I*) ; K. Madhava Menon (Cong. O.), (*Calicut II*) ; N. K. Kumaran (Cong. O), (*Cannanore*) ; M. N. Govindan Nair (C.P.I.), (*Chadayamangalam*) ; P. P. George (Cong.), (*Chalakudy*) ; K. J. Chacko (K. Cong.), (*Changanacherry*) ; K. K. Balakrishnan (Cong.), (*Chelakkara—S.C.*) ; P. Ravindran (C.P.I.), (*Chathanur*) ; P. G. Purushothaman Pillai (C.P.I.-M), (*Chengannur*); K. A. Sivarama Bharathy (S.P.), (*Chittoor*) ; E. Gopalakrishna Menon (C.P.I.), (*Cranganore*) ; G. Varadan (C.P.I.-M.), (*Devicolom—S.C.*).

N. Ramakrishnan (Cong.), (*Edakkad*) ; R. S. Unni (R.S.P.), (*Eravipuram*) ; A. L. Jacob (Cong.), (*Ernakulam*) ; P. B. R. Pillai (S.P.), (*Ettumanoor*) ; Varkey Vadakkan (K.T.P.), (*Guruvayoor*) ; C. B. C. Warrier (C.P.I.-M.), (*Haripad*) ; N. K. Balakrishnan (P.S.P.), (*Hosdurg*) ; A. Kunhikannan (C.P.I.-M.), (*Irikkur*) ; C. S. Gangadharan (K.S.P.), (*Irinjalakuda*).

O. Lukose (K. Cong.), (*Kaduthuruthy*) ; T. S. John (K. Cong.), (*Kalloopara*) ; P. Cyriac John (Cong.), (*Kalpetta*) ; K. V. Kurian (K. Cong.), (*Kanjirapally*) ; A. C. Chacko (K. Cong.), (*Karimannoor*) ; Baby John (R.S.P.), (*Karunagapally*) ; B. M. Abdul Rahiman (M.L.), (*Kasargod*) ; T. Kunjukrishna Pillai (Cong.), (*Kayam-*

kulam) ; P. Nilakantan (S.P.), (*Kazhakuttam*) ; P. K. Chathan Master (C.P.I.), (*Kilimanoor—S.C.*) ; C. Achutha Menon (C.P.I.), (*Kodakara*) ; C. Vasudeva Menon (C.P.I.-M.), (*Kollengode*) ; P. M. Abdulla Kutty Kurukkal (M.L.), (*Kondotty*) ; P. J. Thomas (Cong.), (*Konni*) ; M. I. Markose (K. Cong.), (*Kothamangalam*) ; Kottara Gopalakrishnan (Cong.), (*Kottardkara*) ; M. Thomas (C.P.I.-M.), (*Kottayam*) ; M. Kunjukrishnan Nadar (Cong.), (*Kovalam*) ; P. Unnikrishna Pillai (C.P.I.), (*Krishnapuram*) ; A. A. Rahim (Cong.), (*Kundara*) ; P. V. S. M. Pookoya Thangal (M.L.), (*Kunnamangalam*) ; T. K. Krishnan (C.P.I.-M.), (*Kunnamkulam*) ; T. A. Paraman (R.S.P.), (*Kunnathunad—S.C.*) ; Sathyapalan (R.S.P.), (*Kunathur—S.C.*) ; Pinarayi Vijayan (C.P.I.-M.), (*Kuthuparamba*) ; Thalavady Oommen (S.P.), (*Kuttanad*) ; Chakkeeri Ahmedkutty (M.L.), (*Kuttipuram*) ; P. Kunhan (C.P.I.-M.), (*Kuzhamannam—S.C.*).

M. V. Raghavan (C.P.I.-M.), (*Madayi*) ; K. Karunakaran (Cong.), (*Mala*) ; V. Krishna Das (C.P.I.-M.), (*Malampuzha*) ; U. A. Beeran (M.L.), (*Malappuram*) ; N. I. Devassykutty (Cong.), (*Manalur*) ; K. P. Raman (M.L.), (*Manjeri — S.C.*) ; M. Ramappa (C.P.I.), (*Manjeshwar*) ; M. Moideenkutty Haji (M.L.), (*Mankada*) ; John Manjooran (K.S.P.), (*Mannarghat*) ; S. Damodaran (C.P.I.-M.), (*Mararikulam*) ; K. J. Herschel (Cong. O.), (*Mattancherry*) ; G. Gopinathan Pillai (N.P.S.P.), (*Mavelikkara*) ; A. V. Abdurahiman (M.L.), (*Meppayur*) ; Smt. Pennamma Jacob (Ind.), (*Muvattupuzha*).

M. Kumaran (C.P.I.), (*Nadapuram*) ; M. K. Raghavan (Cong.), (*Narakkal*) ; V. K. Gopinathan (S.P.), (*Nattika*) ; K. G. Kunjukrishna Pillai (C.P.I.), (*Nedumangad*) ; T. K. Chandan (C.P.I.-M.), (*Neeleswaram*) ; G. Kuttappan (P.S.P.), (*Nemom*) ; R. Parameswaran Pillai (C.P.I.-M.), (*Neyyattinkara*) ; M. P. Gangadharan (Cong.), (*Nilambur*) ; P. R. Francis (Cong.), (*Ollur*) ; P. P. Krishnan (C.P.I.-M.), (*Ottappalam*) ; K. M. Mani (K. Cong.), (*Palai*) ; R. Krishnan (C.P.I.-M.), (*Palghat*) ; B. Willingdon (K.T.P.). (*Palluruthy*) ; Damodaran Kalaserri (Cong.), (*Pandalam—S.C.*) ; M. Sathyanesan (C.P.I.-M.), (*Parassala*) ; Varkey Painadan (Ind.), (*Parur*) ; K. K. Nair (C.P.I.-M.), (*Pathanamthitta*) ; P. K. Raghavan (C.P.I.), (*Pathanapuram—S.C.*) ; E. M. S. Namboodiripad (C.P.I.-M.), (*Pattambi*) ; A. V. Kunhambu (C.P.I.-M.), (*Payyannur*) ; K. I. Rajan (C.P.I.-M), (*Peermade—S.C.*) ; Dr. K. G. Adiyodi (Cong.), (*Perambra*) ; K. M. Soopi (S.P.), (*Peringalam*) ; K. K. S. Thangal (M.L.), (*Perinthalmanna*) ; P. I. Poulose (Cong.), (*Perumbavoor*) ; M. V. Hydros (Cong. S.P.), (*Ponnani*) ; K. M. George (K. Cong.), (*Poonjar*) ; K. Krishan Pillai (C.P.I.), (*Punalur*) ; Oommen Chandy (Cong.), (*Puthupally*).

E. Narayanan Nair (Cong.), (*Quilandy*) ; T. K. Divakaran (R.S.P.), (*Quilon*) ; Jacob Sacariah (C.P.I.-M.), (*Ranni*) ; A. K. Anthony (Cong.), (*Sherthalai*) ; C. Govinda Panicker (C.P.I.-M.) (*Sreekrishnapuram*) ; C. P. Govindan Nambiar (Cong.), (*Taliparamba*) ; Sayed Ummer Bafaki (M.L.), (*Tanur*) ; N. E. Balaram (C.P.I.), (*Tellicherry*) ; Vacant (*Thirurangadi*) ; E. John Jacob (K. Cong.), (*Thiruvalla*) ; P. J. Joseph (K. Cong.), (*Thodupuzha*) ; K. Moideenkutty Haji (M.L.), (*Tirur*) ; P. A. Anthony (Cong.), (*Trichur*) ; Paul P. Mani (Cong.), (*Trippunithura*) ; V. Eacharan (Cong.), (*Trithala—S.C.*) ; A. N. Gopala Pillai (N.P.S.P.), (*Trivandrum I*) ; K. Pankajakshan (R.S.P.), (*Trivandrum II*).

Sebastian Thomas (K. Cong.), (*Udumbanchola*) ; A. S. N. Nambissan (C.P.I.-M.), (*Vadakkancherry*) ; Balanandan (C.P.I.-M.), (*Vadakkekara*) ; P. S. Sreenivasan (C.P.I.), (Vaikom) ; M. Kunjukrishna Pillai (Cong.), (*Vamanapuram*) ; T. A. Majid (C.P.I.), (*Varkala*) ; K. Narayana Kurup (K. Cong.), (*Vazhoor*) ; S. Varadarajan Nair (Cong.), (*Vilappil*) ; M. V. Rajan (Cong.), (*Wynad (North—S.T.)*) ; K. Raghavan Master (Cong.), (*Wynad (South—S.T.)*) ; Stephen Padua (Cong.), (*Nominated*).

MADHYA PRADESH LEGISLATIVE ASSEMBLY

Speaker : Gulsher Ahmed ; *Dy. Speaker :* Narayan Prasad Shukla.

Seats : 296 ; *Electorate :* 20,842,129 ; *Votes Polled :* 11,350,437 ; *Party Position :* Congress : 224 ; Jan Sangh : 45 ; Socialist Party : 7 ; Communist Party : 5 ; Independent : 12 ; Nominated : 1 ; Vacant : 2 ; Woman members : 8.

Chetram Parshottam (J. S.), (*Abhanpur*) ; Madhukar Marmat (Cong.), (*Agar—S.C.*) ; Rajendra Kumar Singh (Cong.), (*Akaltara*) ; Magansingh Patel (Cong.), (*Alirajpur—S.T.*) ; Smt. Leela Devi Choudhari (Cong.), (*Alot—S.C.*) ; Tatulal (Cong.), (*Amanganj—S.C.*) ; Gulsher Ahmed (Cong.), (*Amarpatan*) ; Udaybhanu Shah (Cong.), (*Amarwara—S.T.*) ; Rajaram Singh (Cong.), (*Ambah—S.C.*) ; Devendra Kumari (Cong.), (*Ambikapur*) ; Babusingh Gulab Singh Solanki (J. S.), (*Anjad*) ; Kanhaiya Lal Kossaria (Cong.), (*Arang—S.C.*) ; Mahendra Singh (J.S.), (*Ashoknagar*) ; Umrao Singh Dariyav Singh (Cong.). (*Ashta—S.C.*) ; Rameshwar Dayal Arele (Cong.), (*Attair*).

N. V. Raman (Cong.), (*Badwara*) ; Chiranjilal (Cong.), (*Badnawar*) ; Narhari Prasad Sai (J. S.), (*Bagicha—S.T.*) ; Kailashchandra U. Joshi (J. S.), (*Bagli*) ; Kunjbiharilal Agnihotri (Cong.), (*Bahoriband*) ; Sudhanwasingh M. Netam (Cong.), (*Baihar—S.T.*) ; Ramchandrasingh Deo (Cong.), (*Baikunthpur*) ; Lakshminarayan Sharma (J. S.), (*Bairagarh*) ; Mohansingh Marawi (Cong.), (*Bajag—S.T.*) ; Jhitruram (Cong.), (*Bakawand—S.T.*) ; Nandkishore Sharma (Cong.), (*Balaghat*) ; Hira Lal Sonboir (Cong.), (*Balod*) ; Radhe Shyam Shukla (Cong.), (*Baloda*) ; Dolatram Ramdayal (Cong.), (*Baloda Bazar*) ; Shrikrishan Selat (Cong.), (*Banda*) ; Jasvant Singh (Cong.), (*Barelli*) ; Jageshwar N. Bisen (J. S.), (*Barghat*) ; Nathu Singh (Cong.), (*Bargi*) ; Abhaya Singh (Cong.), (*Barnagar*); Amolakchand Chajed (Cong.), (*Barwaha*) ; Umraosingh Parvatsingh (J. S.), (*Barwani—S.T.*) ; Sitaram (J. S.), (*Basoda—S.C.*) ; Laxman J. Satpathi (Cong), (*Basra*) ; Laxman Prasad Vaidya (Cong.), (*Bemetara*) ; Ramgopal Gupta (J. S.), (*Beohari*) ; Gauri Shankar Kaushal (J. S.), (*Berasia*) ; Maroti Narayan Rao (Cong.), (*Betul*) ; Kaliya Singh Balaji (Cong.), (*Bhainsdehi—S.T.*) ; Satya Narayan Singh (Cong.), (*Bhanupratappur—S.T.*) ; Chaturbhuj Morya (J. S.), (*Bhander—S.C.*) ; Shivlal Mehta (Cong.), (*Bhatapara*) ; Kejuram (Ind.), (*Bhatagaon*) ; R. L. Tikaramh (Ind.), (*Bhatagaon—S.C.*) ; Rana Balbahadur (Cong.), (*Bhikangaon*) ; Phool Chand (Cong.), (*Bhilai*) ; Navinchandra Bhuta (Cong.), (*Bhind*) ; Gulab Chand (Cong.), (*Bhojpur*) ; Shakir Alikhan (C.P.I.), (*Bhopal City*) ; Ramkaran Ugra (Cong.), (*Biaora*) ; Darbarsingh (Cong.), (*Bichhiya—S.T.*) ; Surti Kistaiya (Cong.), (*Bijapur*) ; Jagmohansingh (J. S.), (*Bijeypur*) ; Yodavendra Singh *alias* Lalloo Raja (J. S.), (*Bijawar*) ; Shridhar Mishra (Cong.), (*Bilaspur*) ; Chitra Kant Jaiswal (Cong.), (*Bilha*) ; Dalchand Bhagwandas (Cong.), (*Bina*) ; Smt. Parvati Kumari (Cong.), (*Bindranawagar—S.T.*) ; Devi Prasad Choube (Cong.), (*Birendranagar*) ; Agarwal Laxminarayan Khajanchi (Cong.), (*Bohani*) ; Shaligram Srivastava (Ind.), (*Budhni*) ; Brijmohan Dwarkaprasad Mishra (J. S.), (*Burhanpur*).

Krishna Vallabh Gupta (J. S.), (*Chachaura*) ; Bishahu Das Mahant (Cong.), (*Champa*) ; Bhawani Lal (Cong.), (*Chandrapur*) ; L. N. Sharma (Cong.), (*Chaurai*) ; Satendra

Singh Thakur (Cong.), (*Chhapara*); Mahindra Kumar Manav (Cong.), (*Chhatarpur*); Jagdish Prasad (Cong.), (*Chhindwara*); Rama Konda (Cong.), (*Chitrakote—S.T.*); Ram Chandra Bajpayee (Cong.), (*Chitrakut*); Gobardhan (Cong.), (*Chowki—S.T.*); Shyamlal Ujiyar (J. S.), (*Chughari—S.T.*); Chandra Pratap Tiwari (Cong.), (*Churahat*).

Pahad Singh (Cong.), (*Dabra*); Anand Kumar (Ind.), (*Damoh*); Rajkumar Gayanda (Cong.), (*Damua—S.T.*); Lakshman Karma (Cong.), (*Dantewara—S.T.*); Gulabchand Kannoo Lal (J. S.) (*Datia*); Vinaykumar Diwan (Cong.), (*Denwa*); Balraj Singh (Cong.), (*Deosar—S.T.*); Ram Khelawan (Soc.), (*Deotalab*); Ramchandra Agrawal (Cong.), (*Depalpur*); Dwarkaprasad Katane (Cong.), (Dewari); Dhirajsingh Mohansingh (Cong.), (*Dewas*); Dr. Tuman Lal (Cong.), (*Dhamdha—S.C.*); Kesrimal (Cong.), (*Dhamtari*); Surendra Singh Nimkhera (Cong.), (*Dhar*); Vaidya Begraj Sharma (Cong.), (*Dharmajaigarh*); Phatebhansingh Ramsingh (Cong.), (*Dharampuri—S.T.*); Munnalal Shukla (Cong.), (*Dharsiwan*); Sobha Singh (Cong.), (*Dhoolkot—S.T.*); Chhawi Ram Argal (J. S.), (*Dimini—S.C.*); Sundarlal Uraiti (Cong.), (*Dindori—S.T.*); Jhumuklal Bhedia (Cong.), (*Dondilohara—S.T.*); S. Jairam Ayyar (Cong.), (*Dongargaon*); Hiraram Ramsevak (Cong.), (*Dongargarh*); Moti Lal (Cong.), (*Durg*).

Harishankar Sthapak (Cong.), (*Godarwara*); Kasturchand Chaudhary (Cong.), (*Garoth*); Surendra Kumar Singh (Cong.), (*Garghoda—S.T.*); Bishram Singh Mawase (Cong.), (*Ghoradongri—S.T.*); Shyamlal Ujiyar (J. S.), (*Ghugari—S.T.*); Balkrishna Sharma (C.P.I.), (*Gird*); Smt. Jagwa (Cong.), (*Gobadbanas*); Bhure Lal (J. S.), (*Gohad—S.C.*); Narsinghdas (Cong.), (*Gotegaon*); Mohanlal Ashthana (Cong.), (*Govindpura*); Ramesh Dube (Cong.), (*Gulana*); Shiv Pratap Singh (J. S.), (*Guna*); Ganaram Sahu (Ind.),(*Gunderdehi*); Ram Pal Singh (Cong.), (*Gurh*); Ramchand Sarvate (C.P.I.), (*Gwalior*).

Nanhelal Patel (Cong.), (*Harda*); Kali Charan Sakargayen (Cong.), (*Harsud*); Kunjbihari Lal Manmohan Lal (Cong.), (*Hatta*); Mrs. Sushila Dixit (Cong.), (*Hoshangabad*); Mahesh Joshi (Cong.), (*Indore City I*); Homi F. Daji (C.P.I.), (*Indore City II*); Chandra Prabhas (Cong.), (*Indore City III*); Narayan Prasad (Cong.), (*Indore City IV*); Hari Prasad Chaturvedi (Cong.), (*Itarsi*).

Manmohan Das (Cong.), (*Jabalpur Cantt.*); Krishnawtar Bhanot (Cong.), (*Jabalpur-East*); Savaimal Jain (Cong.), (*Jabalpur-West*); Baliram Kashyap (J. S.), (*Jagdalpur—S.T.*); Kamla Prasad Singh (Cong.), (*Jaisinghnagar—S.T.*); Bhagwan Din (Cong.), (*Jaitpur—S.T.*); Bankatlal Todi (Cong.), (*Jaora*); Vacant, (*Jarhagaon*); Luis Beg (Cong.), (*Jashpar—S.T.*); Ramkrishna Mishra (Cong.), (*Jatara*); Kanhaiyalal (Cong.), (*Jawad*); Ganga Bai (Cong.), (*Jhabua—S.T.*); Ajmer Singh (Cong.), (*Jobat—S.T.*); Ramcharanlal Mishra (Cong.), (*Joura*).

Vishram Dhogaye (Cong.), (*Kanker—S.T.*); Hardas Gupta (J. S.), (*Karera*); Kanhaiya Lal Sharma (Cong.), (*Kasdol*); Satyendra P. Mishra (Cong.), (*Katangi*); Chitor Singh (Cong.), (*Katangi*); Bodhram (Cong.), (*Katghora*); Kumar Y. Singh (Ind.), (*Kawardha*); Mrs. Vimla K. Verma (Cong.), (*Keolari*); Gangaram Rana (Cong.), (*Keskal—S.T.*); Kunwar Virendrasingh (J. S.), (*Khacharod*); Vijayalal Oswal (Cong.), (*Khairagarh*); Madhusudan Gautam (Cong.), (*Khairalangi*); Ganga Charan Mishra (Cong.), (*Khandwa*); Chandrakanta Ramkant Khode (Cong.), (*Khargaone*); Baiju Ahirvar (Cong.), (*Kharagpur—S.C.*); Mrs. Manjulabai Wagle (Cong.), (*Khategaon*); Prabhudayal Choube (Cong.), (*Khilchipur*); Liladhar (Cong.), (*Khurai—S.C.*); Jhankar Singh (Cong.), (*Kirnapur*); Jagdish Prasad Verma (J. S.), (*Kolaras*); Mankuram Sodi (Cong.), (*Koondagaon—S.T.*); Beti Hadma (J. S.) (*Konta—S.T.*); Madhura Prasad (Cong.), (*Kota*); Mrigendra Singh (Cong.), (*Kotma*); Pratap Singh Baghel (Cong.), (*Kukshi—S.T.*); Yeshwantrao Meghawale (J. S.), (*Kurud*); Awadhnarayan (J. S.), (*Kurwai*).

Raghavram Chaudhury (Cong.), (*Lahar*); Basant Rao Uikey (Cong.), (*Lakhandon—S.T.*); Vacant, (*Lakhanpur*); N. P. Srivastava (*Lanji*); Sitla Sahai (J.S.), (*Lashkar*); Baburam Chaturvedi (Cong.), (*Laundi*); Rajendra Prasad Shukla (Cong.), (*Lormi*); Chamruram (Cong.), (*Lundra—S.T.*).

Nathu Ram (J. S.), (*Maharajpur*); Purushottamlal Kaushik (Soc.), (*Mahasamund*); Sitaram Sadhuram (Cong.), (*Maheswar—S.C.*); Narayanprasad Sharma (Cong.), (*Mahidpur*); Lalji Patel (Cong.), (*Maihar*); Dashrath (Cong.), (*Malehra*); Puranlal Jangde (J. S.), (*Malkharoda—S.C.*); Surajbhai Tugnawat (Cong.), (*Manasa*); Shivbhanu Solanki (Cong.), (*Manawar*); Smt. Narayani Devi (Cong.), (*Mandla*); Shyamasunder Patidar (Cong.), (*Mandsaur*); Dharampal Singh (Cong.), (*Manendragarh—S.T.*); Srinivas Tiwari (Soc.), (*Mangawan*); Kisanlal Kurre (Cong.), (*Maro—S.C.*); Bhavar Singh Porte (Cong.), (*Marwahi—S.T.*); Ramji Chhitraya Mahajan (Ind.), (*Masod*); Godil Prasad (Cong.), (*Masturi—S.C.*); Ramdhani Mishra (Ind.), (*Mauganj*); Rameshwar Dayal Santre (Soc.), (*Mehgaon*); Vacant (*Mhow-Rural*); Rajendra Singh (Cong.), (*Morar*); Maharaj Singh (J. S.), (*Morena*); Gajramsingh (J. S.), (*Mungaoli*); Ganeshram Anant (Cong.), (*Munkett—S.C.*); Radhakrishna Garg Vakeel (Ind.), (*Multai*); Lakhansingh Solanki (Cong.), (*Murwara*).

Bala Prasad (Cong.), (*Nagod—S.C.*); Ratiram (Cong.), *Narayanpur—S.T.*); Mangilal Bhandari (Cong.), (*Narsingharh*); Jagannath Singh (Cong.), (*Nawrojabad—S.T.*); Raghunandan Prasad (Cong.), (*Neemuch*); Raghunathrao Mandloi (Cong.), (*Nirmarkhedi*); Laxminarayan Nayak (Soc.), (*Niwari*); Anoopsingh Marawi (J. S.), (*Niwas—S.T.*); Thakur Neknarayan Singh (Cong.), (*Nohata*).

Deosai (Cong.), (*Pal—S.T.*); Phool Chand (Cong.), (*Palari—S.C.*); Kulpat Singh Bharatdwaj (Cong.), (*Pamgarh*); Girwar Singh Patel (Cong.), (*Panagar*); Sakharam Nilkanth (J. S.), (*Pandhana—S.C.*); Madhavlal Dubey (Cong.), (*Pandhurna*); Hetram Dube (Cong.), (*Panna*); Barik Rao (Cong.), (*Parasia—S.C.*); Tejlal Tembhre (Cong.), (*Paraswada*); Motilal Sonkar (Cong.), (*Patan—S.C.*); Laljit Singh (J. S.), (*Pathalgaon—S.T.*); Gopaldas Munnilal (Cong.), (*Patharia—S.C.*); Jagdish Singh (Cong.), (*Pawai*); Dileep Singh Bhuriya (Cong.), (*Petlawad—S.T.*); Bhanupratap Singh (Cong.), (*Pichhore*); Mrs. Ratan Kumari Devi (Cong.), (*Piparia*); Thakur Bhanu Pratap Singh (Cong.), (*Pithaura*); Babulal (J. S.), (*Pohri—S.C.*); Bhuvneshwar (J. S.), (*Premnagar—S.T.*); Dalbirsingh (Ind.), (*Pushprajgarh—S.T.*); Smt. Kamla Kumari (Cong.), (*Pussaur*).

Harlal Shakyavar (J. S.), (*Raghogarh—S.C.*); Ram Kumar Agarwal (Cong.), (*Raigarh*); Sudhir Mukherjee (C.P.I.), (*Raipur*); Gulabsingh (Cong.), (*Rajgarh*); Shyamacharan Shukla (Cong.), (*Rajim*); Kishorilal Shukla (Cong.), (*Rajnandgaon*); Barkoo Mahadu Chauhan (Cong.), (*Rajpur—S.T.*); Pyarelal Seoprasad (Cong.), (*Rampur—S.T.*); Toshan Singh (Soc.), (*Rampurbaghelan*); Akbarali Arif (Cong.), (*Ratlam*); Gaurishankar Pathak (Cong.), (*Rehli*); Muni Prasad Shukla (Cong.), (*Rewa*); Rasalsingh (J. S.), (*Ron*).

Raghuvar Dayal Rasoiya (Cong.), (*Sabalgarh*); J. Jotshi (Cong.), (*Sagar*); Prabhudayal Gehlot (Cong.), (*Sailana—S.T.*); Pushpendra Nath Singh (Ind.), (*Sakti*); Larangsai (J. S.), (*Samai—S.T.*); Larangsai (J. S.), (*Samri—S.C.*); Duli Chand (Cong.), (*Sanchi—S.C.*); Virendra Bahadur Singh Lal Bahadur (Cong.), (*Saraipali*);

Sheoprasad Nagotia (Cong.), (*Saramgarh—S.C.*); Sajjan Singh Vishnar (Cong.), (*Sarangpur*); Babcosingh Alawa (Cong.), (*Sardarpur—S.T.*); Smt. Kanta Parekh (Cong.), (*Satna*); Manik Rao Narayan Rao (Cong.), (*Saunsar*); Radha Kishan Malviya (Cong.), (*Sawer—S.C.*); Aziz Qureshi (Cong.), (*Sehore*); Shobha Ram Patel (Cong.), (*Sendhwa—S.T.*); Nitendranath Sheel (Cong.), (*Seoni*); Shivcharan Pathak (Cong.), (*Seondha*); Shivkumar Singh Navalsingh (Cong.), (*Shahpur*); Tara Prabhagchandra Sharma (Cong.), (*Shajapur*); Lokendra Singh (J. S.), (*Sheopur*); Sushil Bahadur Ashthana (J. S.), (*Shivpuri*); Rameshwardayal Sharma (Cong.), (*Shujalpur*); Arjun Singh (Cong.), (*Sidhi*); Pusauram (Cong.), (*Sihawa—S.T.*); Parmanandbhai (Cong.), (*Sihora*); Shyam Kartik Ram (Cong.), (*Singrauli*); Rajmani Patel (Cong.), (*Sirmaur*); Inayat Ullaha Khan Tarji Mashrikhi (Cong.), (*Sironj*); Dhansukhlal Bhachawat (Cong.), (*Sitamau*); Sukhiram (Cong.), (*Sitapur—S.T.*); Krishnapal Singh (Cong.), (*Sohagpur*); Bapoolal Kishanlal (Cong.), (*Sonkatch—S.C.*); Dhirendranath (Cong.), (*Sarajpur*); Gayaprasad Kaleer Panthi (Cong.), (*Surkhi—S.C.*); Haribhau Joshi (J. S.), (*Susner*); Ramgopal Bhartiya (Cong.), (*Suvasra—S.C.*).

Rohini Kumar (Cong.), (*Takhatpur*); Lalkirti Kumar Singh (Ind.), (*Tandkhar—S.T.*); Dineshwar Sai (J. S.), (*Tapkara—S.T.*); Laxminarayan Jain (Cong.), (*Tarana*); Triveni Prasad (J. S.), (*Teonthar*); Manna (Soc.), (*Thandla—S.T.*); Sardar Singh (Cong.), (*Tikamgarh*); Khee Prasad Bastwar (Cong.), (*Timrani—S.C.*).

Gautam Sharma (Cong.), (*Udaipura*); Prakash Chand Sethi (Cong.), (*Ujjain-North*); Durgadas Suryavanshi (Cong.), (*Ujjain-South*); Pratap Singh (Cong.), (*Umaria*); Suryaprakash (Cong.), (*Vidisha*); Ramrani Jauhar (Cong.), (*Vijay Raghogarh*); Than Singh Bisen (Cong.), (*Waraseoni*); Col. Miss Florence St. Clair Watkins (Nominated).

MAHARASHTRA LEGISLATIVE ASSEMBLY

Speaker: S. K. Wankhede.

Dy. Speaker: R. V. Bet.

Secretary: D. M. Aney.

Seats: 271 (including one Anglo-Indian nominee); *Electorate:* 25,891,761; *Votes Polled:* 15,671,508.

An estimate of party position is as follows: Congress: 221; Jan Sangh: 5; C.P.I.: 2; C.P.M.: 1; Socialist Party: 3; Muslim League: 2; Peasants & Workers Party: 7; Republican Party of India: 2; Shiv Sena: 1; Mahavidarbha Sangharsh Samiti: 4; Independents: 20; Cong. O.: 1; Nominated 1: Vacant: 1. No. of Woman members: 27.

Narasing S. Deshmukh (Cong.), (*Achalpur*); Manoramabai M. Dhote (Cong.), (*Adyal*); K. B. Mhaske (Cong.), (*Ahmednagar North*); Navnitdas N. Barshikar (Ind.), (*Ahmednagar South*); Kisanrao N. Deshmukh (P.W.P.), (*Ahmedpur*); Baburao T. Mane (Cong.), (*Akkalkot*); Jamnalal Shriramji Goenka (Cong.), (*Akola*); Manohar B. Tayade (Cong.), (*Akot*); Narayan K. Bhagat (Cong.), (*Alibag*); Jagatrao V. Pawar (Cong.), (*Amalner*); Ankushrao R. Tope (Cong.), (*Ambad*); Kisanrao B. Bankhele (Cong.(O)), (*Ambegaon*); Swarupchand J. Ajamera (Cong.), (*Amgaon*); D. N. Metkar (Cong.), (*Amravati*); R. M. Pandey (Cong.), (*Andheri*); Baburao N. Madavi (Cong.), (*Aramori*); Adkuji S. Paulzagade (Cong.), (*Arjuni-Morgaon*); Diairyashilrao V. Wagh (Ind.), (*Arvi*); Shripatrao L. Kadam (Cong.), (*Ashti*); Annasaheb U. Lengare (Cong.), (*Atpadi Kavathe Mahankal*); Vishwanathrao S. Jadhav (Cong.), (*Aurangabad East*); Dr. Rafiq B. Zakaria (Cong.), (*Aurangabad West*); Keshav S. Sonawane (Cong.), (*Ausa*).

Purushottam K. Deshmukh (Cong.), (*Badnera*); Mothabhau Gorakh Bhamre (Cong.), (*Baglan*); Govindrao S. Sarnayak (Cong.), (*Balapur*); Jorge D'Souza (Cong.), (Bandra); Sharadchandra G. Pawar (Cong.), (*Baramati*); Mrs. Shailaja C. Shitole (Cong.), (*Barsi*); Ekbal Hussain (Cong.), (*Basmat*); H. G. Vartak (Cong.), (*Bassein*); Ramchandra J. Deotale (Cong.), (*Bhadravati*); Govind R. Shende (M.V.S.S.), (*Bhandara*); T. D. Memjade (Cong.), (*Bhawani Peth*); Sujatali Deshmukh (Cong.), (*Bhid*); R. Harish (Cong.), (*Bhiwandi*); S. B. Chavan (Cong.), (*Bhokar*); Bhaurao N. Gawande (Cong.), (*Bhokardan*); Anantrao N. Thopate (Ind.), (*Bhor*); P. S. Mahajan (Cong.), (*Bhusaval*); Jairam G. Ambekar (Cong.), (*Biloli*); Neelkanth Shridhar Sakpal (Cong.), (*Borgaon-Manju*); D. G. Palkar (Cong.), (*Borivli*); Baliram Marotirao Gurpude (Cong.), (*Brahmapuri*); Ramsing Deosing Bhonde (Cong.), (*Buldana*); V. R. Hoshing (Cong.), (*Byculla*).

D. D. Chavan (Cong.), (*Chalisgaon*); Eknath P. Salve (Cong.), (*Chanda*); Vasantrao A. Desai (Cong.), (*Chandgad*); Janardan K. Aher (Ind.), (*Chandor*); Sharad Motiram Tasare (Cong.), (*Chandur*); J. B. Ahire (Ind.), (*Chandwad*); Mrs. K. Sonaji Kshirsagar (Cong.), (*Chausala*); V. K. Tembe (Cong.), (*Chembur*); B. R. Bondre (Cong.), (*Chikhali*); G. M. Birje (Cong.), (*Chimur*); P. K. Sawant (Cong.), (*Chiplun*); Mrs. Shardchandrika Suresh Patil (Cong.), (*Chopda*); Mrs. Aloo Jal Chibber (Cong.), (*Colaba*); Baliram V. Hirey (Cong.), (*Dabhadi*); Dr. W. S. Matkar (Cong.), (*Dadar*); Mahadeo G. Kadu (Cong.), (*Dahanu*); Ramachandra V. Belose (Cong.), (*Dapoli*); Mrs. Kokila J. Patil (Cong.), (*Daryapur*); Alihasan Mamdani (Cong.), (*Darwha*); P. S. Sabne (Cong.), (*Deglur*); R. G. Mirashi (Cong.), (*Deogad*); N. B. Gaidhani (Ind.), (*Deolali*); Dr. M. B. Popat (Cong.), (*Dhobitalao*); Mrs. Ushadevi K. Jagdale (Cong.), (*Dhond*); S. S. Mali (Cong.), (*Dhulia North*); Mrs. Kamalabai C. Ajmera (Cong.), (*Dhulia South*); Uthamrao D. Patel (Cong.), (*Digras*); Kachru B. Raut (Cong.), (*Dindori*).

Mrs. Pratibha D. Patil (Cong.), (*Edlabad*); Digambar S. Patil (Cong.), (*Erandol*); Raje Atram (Ind.), (*Gadchiroli*); Baburao S. Patil (Cong.), (*Gadhinglaj*); Trimbak M. Sawant (Cong.), (*Gangakhed*); Balasaheb R. Pawar (Cong.), (*Gangapur*); S. A. Solanke (Cong.), (*Georai*); R. V. Tripathy (Cong.), (*Ghatkopar*); Pramod Navalkar (S.S.), (*Girgaon*); Mrs. Rajkumari G. Bajpai (Cong.) (*Gondia*); R .T. Harinkhede (Cong.), (*Goregaon*); S. D. Natu (J.S.), (*Guhagar*); R. Palekar (Cong.), (*Hadgaon*), Babasaheb Bhausaheb Khanjire (Cong), (*Hatkanangale*); M. D Magar (Cong.), (*Haveli*); Keshavrao M. Jhade (Cong.), (*Hinganghat*); Mrs. Ashatai Marotiappa Tale (Cong.), (*Hingoli*); Vithal Ganpat Ghare (Cong.), (*Igatpuri*); Shankarrao B. Patil (Cong), (*Indapur*); M. A. Patil (Cong.), (*Jalgaon*); Shankarrao R. Rakh (Cong.), (*Jalna-South*); Bajirao S. Chavan (Ind.), (*Jalna-North*); N. K. Patil (Ind.), (*Jamner*); Lalsingrao B. Shinde (Cong.), (*Jaoli*); Shivrudra T. Bamane (Cong.), (*Jath*); R. G. Bhoye (Cong.), (*Jawhar*); Sheshrao A. Deshmukh (P.W.P.), (*Jintur*); Shrikrishna R. Tambe (Cong.), (*Junnar*); Sadashiv Dadoba Mandlik (Ind.), (*Kagal*); A. Baburao (Cong.), (*Kaij*); Suryawanshi S. Ganpatrao (Cong.), (*Kalam*); V. C. Mhaske (C.P.I.-M), (*Kalamnuri*); S. K. Wankhede (Cong.), (*Kalmeshwar*); Nakul Pundlik Patil (Cong.), (*Kalyan*); Sulemankhan Abdullakhan

Pathan (Cong.), (*Kamptee*); Keshavrao S. Dhondge (P.W.P.), (*Kandhar*); Keshavrao Vyankateshrao Rane (Cong.), (*Kankavli*); N. G. Patil (Cong.), (*Kannad*); B. R. Kotwal (Cong.), (*Karad-North*); Y. J. Mohite (Cong.), (*Karad-South*); E. B. Nimbalkar (Cong.), (*Karjat*); T. H. Sonavane (Cong.), (*Karmala*); Shripatrao Shankarrao Bondre (Cong.), (*Karvir*); R. V. Sumda (Cong.), (*Kasa*); Mrs Merchant Lilabhai (Cong.), (*Kasba Peth*); S. D. Gedam (Cong.), (*Katol*); Baburao Adaskar (Cong.), (*Kej*); T. D. Deshmukh Parwekar (Cong.), (*Kelapur*); B. L. Patil (Cong.), (*Khalapur*); M. P. Gavande (Cong.), (*Khamgaon*); S. S. Mane (Cong.), (*Khanapur*); Keshavrao S. Patil (Ind.), (*Khatav*); S. V. Bute Patil (Cong.), (*Khed-Alandi*); H. M. Dalwai (Cong.), (*Khed- Bandar*); Anant N. Namjoshi (Cong.), (*Khetwadi*); K. C. Pachpute (Cong.) (*Kinwat*); T. S. Karkhanis (P.W.P.), (*Kolhapur*); D. B. Barge (Ind.), (*Koregaon*); Z. B. Bukhari (M.L.), (*Kumbharwada*); P. K. Kunte (Cong.), (*Kurla*).

S. Sawant (Cong.), (*Lanja*); Shivraj V. Patil (Cong.), (*Latur*); Jagrao Raoji Chavan (Cong.), (*Lonar*); Ramchandra Anaji Khaire (Cong.), (*Lovegrove*); Vittalrao Shinde (Cong.), (*Madha*); Digambar V. Purohit (S.P.), (*Mahad*); F. Michael Pinto (Cong.), (*Mahim*); Mrs. Mrinal Keshav Gore (S.P.), (*Malad*); Smt. Aisha Hakim (Cong.), (*Malegaon*); Arjun A. Wankhede (J.S.), (*Malkapur*); Nandeorao R. Mate (Cong.), (*Malshi*); C. A. Deshmukh (Cong.), (*Malshiras*); Vijaysinha Gopalrao (Cong.), (*Malwan*); Smt. Prabhavati G. Shinde (Cong.), (*Man*); Kisanlal R. Marda (Cong.), (*Mangalwedha*); R. V. Mahalunge (Cong.), (*Mangaon*); Gajadhar Ramsingh Rathod (Cong.), (*Mangrulpir*); Savleram N. Tribhuvan (Cong.), (*Manjlegaon*); Mrs. Kamala Raman (Cong.), (*Matunga*); Krishnarao D. Bengde (J.S.), (*Mawal*); V. K. Toraskar (Cong.), (*Mazagon*); Ramrao G. Zanak (Cong.), (*Medshi*); Sitaram C. Lodhe (Cong.), (*Mehkar*); Ramu M. Patel (Cong.), (*Melghat*); Narasinh R. Pathak (Ind.), (*Miraj*); S. Shankarrao Patil (Cong.), (*Mohol*); Malhar G. Mahulkar (Cong.), (*Morashi*); Dr. D. N. Samant (Cong.), (*Mulund*); Shantaram G. Gholap (Cong.), (*Murbad*); Mrs. Pratibadevi B. Tidke (Cong.), (*Murtizapur*); Yashwantrao S. Bhangare (Cong.), (*Nagar-Akola*); Umar Abdul Azizkazi (Cong.), (*Nagpada*); Nawalchandra Giridharilal Tokasia (Cong.), (*Nagpur-Central*); Narendra R. Deoghare (Cong.), (*Nagpur-East*); Daulatrao H. Ganvir (MVSS), (*Nagpur-North*); Dr. Smt. Sushila Balraj (Cong.), (*Nagpur-West*); Vilas V. Sawant (Cong.), (*Naigaon*); Sayad Faruq Pasha Makdum Pasha (Cong.), (*Nanded*); Haribhau Manku Gawali (Cong.), (*Nandgaon*); Ramesh P. Valvi (Cong.), (*Nandurbar*); Vilas Murlidhar Lonari (Cong.), (*Nasik City*); Surupsing H. Naik (Cong.), (*Nawapur*); Shivajirao B. Patil (Cong.), (*Nilanga*); D. S. Patil (Ind.), (*Niphad*).

B. S. Chalukya (Cong.), (*Omerga*); G. Ramaji Survase (Cong.), (*Osmanabad*); Krishnarao M. Patil (Cong.), (*Pachora*); Kalyanrao P. Patil (Cong.), (*Paithan*); Vinayak S. Patil (Cong.), (*Palghar*); Audumbar Kondiba Patil (Cong.), (*Pandharpur*); Dhayandeo Yeshwant Patil (Cong.), (*Panhala*); Dinkar B. Patil (P.W.P.), (*Panvel*) Vasudeo A. Deshmukh (R.P.I.), (*Paranda*); Raosaheb Bapusaheb Jamkar (Cong.), (*Parbhani*); G. S. Loke (Cong.), (*Parel*); Shankarrao D. Kale (Cong.), (*Parner*); B. R. Patil (Cong.), (*Parola*); Haribhau Ramrao Barkule (P.W.P.), (*Partur*); D. S. Desai (Cong.), (*Patan*); Ganpat R. Mhaske (Ind.), (*Pathardi*); Sakharam G. Nakhathe (Cong.), (*Pathri*); A. T. Patil (Ind.), (*Pen*); Krishnachandra R. Bhoite (Cong.), (*Phaltan*); Shivajirao Dhere (Cong.), (*Poona Cantt.*); Mrs. Prabha Rao (Cong.), (*Pulgaon*); Sursinha J. Jadhavrao (S.P.), (*Purandhar*); V. P. Naik (Cong.), (*Pusad*); Krishnaji Gangaram More (Ind.), (*Radhanagari*); P. B. Kadu (C.P.I.), (*Rahuri*); Sahadev M. Thakare (Cong.), (*Rajapur*); Vithal L. Dhote (Cong.), (*Rajura*); A. K. Deshmukh (Cong.), (*Ralegaon*); G. F. Mahajan (Cong.), (*Ramtek*); S. E. Hasnain (Cong.), (*Ratnagiri*); M. D. Chaudhari (Cong.), (*Raver*); R. V. Munde (Cong.), (*Renapur*).

M. R. Kapgathe (Cong.), (*Sakoli*); Mrs. Gojarbhai R. Bhamre (Cong.), (*Sakri*); Mrs. Laxmibai B. Bhuwad (Cong.), (*Sangameswar*); Bhikajirao J. Khatal (Cong.), (*Sangamner*); Pandurang Bapurao Patil (Cong.), (*Sangli*) Bapusaheb B. Patil Salunke (Cong.), (*Sangola*); Jagesh Desai (Cong.), (*Santacruz*); Smt. Yeshodharabai B. Bajaj (Cong.), (*Saoli*); Narendra M. Tidke (Cong.), (*Saoner*); D. S. Jagtab (Cong.), (*Satara*); Vacant (*Sawantwadi*); A. T. Bhosle (Cong.), (*Sewree*); G. D. Bhandari (Cong.), (Shahada); S. R. Shinge (Cong.), (*Shahpur*); Udayasingrao N. Gaikwad (Cong.), (*Shahuwadi*); Kashiram R. Patil (P.W.P.), (*Shegaon*); Vakilrao B. Langhe (C.P.I.), (*Shevgaon*); Mrs. Leelabai U. Patil (Cong.), (*Shindkeda*); Bhagawanrao B. Patil (Cong.), (*Shirala*); S. G. Kolhe (Ind.), (*Shirdi*); Ratnappa B. Kumbhar (Cong.), (*Shirol*); Shivajirao G. Patil (Cong.), (*Shirpur*); Ravindra More (Cong.), (*Shivajinagar*); Ramkrishna V. Bet (Cong.), (*Sholapur City-North*); Smt. Nirmala Tokal (Cong.), (*Sholapur City-South*); A. B. Khilledar (Cong.), (*Sholapur-North*); Veerpakshapa G. Shivdare (Cong.), (*Sholapur-South*); B. M. Bharaskar (Ind.), (*Shrigonda*); Govindrao W. Adik (Cong.), (*Shrirampur*); A. R. Antuley (Cong.), (*Shrivardhan*); R. K. Mhalgi (J.S.), (*Shukrawar Peth*); G. S. Mankar (Cong.), (*Sillod*); Ramkrishna N. Naik (Cong.), (*Sinnar*), M. V. Alone (Cong.), (*Sironcha*); Popatrao H. Kokare (Cong.), (*Sirur*); A. T. Pawar (Ind.), (*Surgana*).

Dilvarsing D. Padvi (J.S.), (*Taloda*); Babasaheb G. Patil (Cong.), (*Tasgaon*); Mrs. Vimalabai K. Rangnekar (Cong.), (*Thana*); Shaligram Ramratan Dixit (Cong.), (*Tiroda*); S. S. Patil (Cong.), (*Tuljapur*); Keshavrao A. Pardhi (Cong.), (*Tumsar*); V. B. Khadiwale (R.P.I.), (*Udgir*); Sanmukh Chuharmal Israni (Cong.), (*Ulhasnagar*); S. A. Mane (Cong.), (*Umarkhed*); G. M. Banatwala(M.L.), (*Umerkhadi*); A. L. Waghamare (Cong.), (*Umrer*); Namdeo Vhatkar (Cong.), (*Vadgaon*); Smt. S. V. Patil (Cong.), (*Vaijapur*); D. S. Nandekar (MVSS), (*Vani*); S. N. Desai (Cong.), (*Vengurla*); Mrs. Kantaben C. Shah (Cong.), (*Vile Parle*); P. B. Bhosale (Cong.), (*Wai*); Uttam Bhagawant Mahalle (Cong.), (*Walgaon*); H. N. Trivedi (Cong.), (*Walkeshwar*); R. A. Patil (Cong.), (*Walwa*); Vasantrao Janardhan Karlekar (Cong.), (*Wardha*); Bhimrao M. Katke (Cong.), (*Washim*); S. S. Dighe (Cong.), (*Worli*); J. T. Mahajan (Cong.), (*Yawal*); N. R. Bhorkade (Ind.), (*Yeola*); N. R. Gharphalkar (Ind.), (*Yeotmal*); Dennis L. Amore—Nominated (*Anglo-Indian*).

MAHARASHTRA LEGISLATIVE COUNCIL

Chairman : V. S. Page ; *Dy. Chairman :* R. S. Gavai ; *Secretary :* D. M. Arey ; *Jt. Secretary :* S. R. Kharbe ; *Dy. Secretaries :* G. G. Kudalkar ; B. G. Pendse.

Strength : 78. Party position : Congress 49 ; Independent 11 ; Rashtriya Lakshahi Aghadi — Bharatiya Jan Sangh (R.L.A.-B.J.S.) 6 ; Republican 2 ; Congress (O) 2 ; Samajwadi Aghadi — Peasants and Workers (SA—P & W) 4 ; Samajwadi Aghadi — Bharatiya Kranti Dal (SA-B.K.D.) 1 ; Shiv Sena (S.S.) 1 ; Samajwadi Aghadi — Samajwadi (SA-S) 2 ; No. of woman members 2.

Local Authorities' Constituency (22)

Baburao G. Jadhav (Cong.), (*Aurangabad*); Chhedilal B. Gupta (Cong.), (*Bhandara*); Chitrasen R. Khanolkar (Ind.), (*Ratnagiri*); Devrao A. Chaudhari (Cong.), (*Wardha & Yeotmal*); Dhanaji R. Patel (Cong.), (*Jalgaon*); H. Mohd (Cong.), (*Akola & Buldana*); Jatiram C. Barve (Cong.), (*Nagpur*); Linganna P. Pujari (Cong.), (*Greater Bombay*); Madhukar L. Dandekar (Ind.), (*Kolaba*); Manikrao P. Mangudkar (*Cong.*), (*Sholapur*); Manikrao S. Masker (Cong.), (*Parbhani and Nanded*); Manohar Gajanan (S.S.), (*Greater Bombay*); Marutrao S. Ghule (Cong.), (*Ahmednagar*); Mulchand S. Gothi (B.K.D.), (*Nasik*); Narayan U. Deshmukh (Cong.), (*Amravati*); Prabhakar D. Dalal (Cong.), (*Dhulia*); Sadashivrao A. Shinde (Cong.), (*Kolhapur*); Sahebrao D. Hangargekar (Cong.), (*Osmanabad and Bhir*); Sambhajirao Sahebrao (Cong.-O), (*Poona*); Vasantrao B. Patel (Cong.), (*Sangli-cum-Satara*); Vasudev N. Bhruguwar (Cong.), (*Chanda* and (*Rajura*); Zumberlal M. Kalantri (Cong.), (*Thana*).

Elected by the Legislative Assembly (30)

Abasaheb Dattarao Deshmukh (Cong.); Anandiram M. Kumath (Cong.); Annasaheb R. Gavane (S.A. — P & W); Appasaheb R. Jadhav (Cong.); Bajirao N. Patil (Cong.); Bhausaheb L. Shirole (Cong.); Bhiku D. Bhilare (Cong.); Dattatraya B. Tamhane (S.A.—S); Dashrath H. Tayade (S.A., P & W); Damodar T. Rupavate (Cong.); Govindrao B. Patil (Cong.); Govindrao P. Buchake (S.A.—Ind.); Haribhau P. Gole (Cong.); Lakshman E. Manal (Cong.); Laxmanrao S. Deshmukh (Cong.); Madhav G. Patil (Cong.); Motiram U. Lahane (R.L.A.—B.J.S.); Narayan D. Patil (S.A.—P & W.); Narayan W. Karwade (Cong.); Pandurang B. Salunke (Cong.); Pundalik G. Bhanarkar (Cong.); Ramkrishna Meghe (Cong.); Ramkrishna S. Gavai (Rep.); Sadashiv K. Vaishampayan (Cong.); Shankarrao V. Sonavane (Cong.); Uttamrao B. Rathod (Cong.); Vaman P. Bapat (Cong.); Vithal L. Reelkar (Cong.); Vithal S. Page (Cong.); Vithalrao G. Hande (S.A.—P. & W.).

Teachers' Constituency (7)

Dhondo V. Deshpande (R.L.A.—Ind.), (*Greater Bombay-cum-Maharashtra*); Haribhau S. Hatwar (Ind.), (*Vidarbha*); Jagannath G. Bhawe (R.L.A.—Ind.), (*Greater Bombay-cum-Maharashtra*); Mahadeo N. Anjikar (Ind.), (*Vidarbha*); Mukund T. Kulkarni (R.L.A.—Ind.); (*Greater Bombay-cum-Maharashtra*); Nagorao B. Sapate (Ind.), (*Vidarbha*); Prakash G. Mohadikar (S.A.—Ind.), (*Greater Bombay-cum-Maharashtra*).

Graduates' Constituency (7)

Prof. Gajanan B. Kanitkar (R.L.A.—B.J.S.), (*Greater Bombay*); Ganesh P. Pradhan (S.A.—S), (*Maharashtra*); Govind K. Athavale (R.L.A.—Ind.), (*Vidarbha*); Ramjiwan F. Choudhury (R.L.A.—B.J.S.), (*Vidarbha*); Uttamrao L. Patil (R.L.A.—B.J.S.), (*Maharashtra*); Dr. Vasantkumar Ramkrishna (R.L.A.—B.J.S.), (*Greater Bombay*); Vishnu Ghanshyam Deshpande (R.L.A.—B.J.S.), (*Vidarbha*).

Nominated (12)

Charudatta C. Shah (Cong.); G. D. Madgulkar (Cong.); Jawaharlal A. Darda (Cong.); Jethmal K. Maheshwari (Cong.); Dr. J. Leon D'Souza (Cong.); Madhavrao K. Sagale (Cong.); Smt. Maniben N. Desai (R.L.A.—Cong.-O); Narhar Waman Limaye (Cong.); Pandharinath V. Patil (Cong.); Shamrao Sakharam Kadam (Cong.); Kum. Shantabai D. Dani (Rep.); Tushar Pandurang Pawar (Cong.).

MANIPUR LEGISLATIVE ASSEMBLY

The assembly was dissolved on March 28, 1973.

MEGHALAYA LEGISLATIVE ASSEMBLY

Speaker : Prof. Radhon Singh Lyngdoh; *Dy. Speaker :* Singjan Sangma.

Seats : 60. *Electorate :* 418,495; *Votes polled :* 215,151; *Party Position :* All India Hill Leaders' Conference 36; Congress 9; Independents : 7; Hill State People Democratic Party 8. Woman member : one.

Jagbandhu Barman (Cong.), (*Ampatigiri–S.T.*); ; Grohonsingh Marak (APHLC), (*Bajengdoba–S.T.*); A. Jackson Marak (APHLC), (*Chokpot–S.T.*); Reidson Momin (APHLC), (*Dadengiri–S.T.*); Ira Marak (APHLC), (*Dalamgiri–S.T.*); Nimosh Sangma (APHLC), (*Dalu-S.T.*); Brojendra Sangma (APHLC), (*Dambuk-Aga–S.T.*); Besterson Kharkongor (APHLC), (*Dienglieng-S.T.*); P. Ripple Kyndiah (APHLC), (*Jaiaw-S.T.*); Blooming Shallam (APHLC), (*Jowai–S.T.*); Pritington Sangma (APHLC), (*Kharkutta–S.T.*); Plansing Marak (APHLC), (*Kherapara–S.T.*); Parasvanath Choudhury (Cong.), (*Laban*); Peter Garnett Marbaniang (APHLC), (*Laitumkhrah*); Humphery Nongrum (APHLC), (*Langrin-S.T.*); Galynstone Laloo (APHLC), (*Lyngkyrdem-S.T.*); Shamsul Haque (APHLC), (*Mahendraganj*); Y. Fuller Lyngdoh Mawnai (HSPDP), (*Mairang–S.T.*); Upstar Kharbuli (Ind.), (*Malki*); Prof. Martin Narayan Majaw (Ind.), (*Mawha–li–S.T.*); Prof. Alexander Warjiri (*APHLC*), (*Mawkhar–S.T.*); Rowell Lyngdoh (HSPDP), (*Mawkyrwat–S.T.*); Stanlington David Khongwir (HSPDP), (*Mawlai–S.T.*); Maham Singh (Cong.), (*Mawprem*); Kisto M. Roy Marbaniang (APHLC), (*Mawsynram- S.T.*); Raisen Mawsor (HSPDP), (*Mawthengkut–S.T.*); Sibendra Narayan Koch (APHLC), (*Mendipathar*); Jor Manik Syiem (APHLC), (*Mylliem- S.T.*); Humphry Hadem (Ind.), (*Mynso Raliang–S.T.*).

Edwingson Bareh (APHLC), (*Nartiang–S.T.*); Hoover Hynniewta (Ind.), (*Nongkhlaw–S.T.*); D. Dethevelson Lapang (APHLC), (*Nongpoh–S.T.*); Darwin D. Pugh (APHLC), (*Nongshken-S.T.*); Francis K. Mawlot (HSPDP), (*Nongstoin-S.T.*); Enowell Pohshna (Ind.), (*Nongtalang-S.T.*); Brington Buhai Lyngdoh (APHLC), (*Nongthymmai-S.T.*); Prof. Radhon Singh Lyngdoh (APHLC), (*Nonkrem–S.T.*); Winstone Syiemiong (HSPDP), (*Nonspung–S.T.*); Hopinstone Lyngdoh (HSPDP), (*Pariong–S.T.*); Akramozzaman (Cong.), (*Phulbari*); Jenden Marak (Ind.), (*Rangsakona–S.T.*); Salseng Marak (APHLC), (*Resubelpara–S.T.*); Medison A. Sangma (APHLC), (*Rongchugiri–S.T.*); Pleander Gare Momin (APHLC), (*Rongjeng–S.T.*); Miss Percylina Marak (APHLC) (*Rongram–S.T.*); Choronsing Sangma (APHLC), (*Rongreng-giri–S.T.*); Sandford K. Marak (APHLC), (*Rongsakona–S.T.*); Lewis Bareh (Ind.), (*Rymbai*)–*S.T.*); Samarendra Sangma (APHLC), (*Salmanpara–S.T.*); William Cecil R. Marak (Cong.), (*Sekella*); Dol Chandra Baishah (Ind.), (*Selsella–S.T.*); Stanley D. D. Nichols Roy (APHLC), (*Shella–S.T.*); Dhrubanath Joshi (Cong.), (*Shillong Cantt.*); Williamson A. Sangma (APHLC), (*Sijja–S.T.*); Edward Kurbah (Ind.), (*Sohiong–S.T.*); S. P. Swer (APHLC), (*Sohra–S.T.*); G. Mylliemgap (APHLC), (*Sohryngkham–S.T.*); Elwin Sangma (APHLC), (*Songsak*); Onward Leyswell Nongtdu (Ind.), (*Sutnga–S.T.*); Manindra Rabha ((APHLC), (*Tikrilla*); Singjan Sangma (Cong.), (*Tura–S.T.*); Dio Singh Lyndoh (Cong.), (*Umroi*).

MIZORAM LEGISLATIVE ASSEMBLY

Speaker : H. Thansanga. *Dy. Speaker :* Hiphei.

The following are the names of the members and their constituencies respectively: Lalrinliana (*Aizawl—Central*); R. Thangliana (*Aizawl — North*) ; Lalsangzuala (*Aizawl — South*) ; P. B. Nikhuma (*Buarpui*) ; Satyaprio (*Chawngte*) ; Hari Kristo Chakma (*Demagiri*) ; Thangzika (*Hnahthial*) ; Ch. Saprawnga (*Kawnpui*) ; F. Hrangvela (*Khawbung*) ; J. Thanghuama (*Khawhai*) ; Vanlalhruaia (*Khawzawl*) ; Ch. Chhunga (*Kolasib*) ; K. L. Rochama (*Lunglei*) ; C. Lalruata (*Lungpho*) ; C. Chawngkunga (*Mamit*) ; Lalkunga (*Phuldungsei*) ; Sangkhuma (*Ratu*) ; Zalawma (*Rengdil*) ; Sapliana (*Saiha*) ; Ngurwala (*Sairang*) ; Khawtinkhuma (*Saitual*) ; Sangchhuma (*Sangau*) ; R. Zoliana (*Sateek*) ; Vaivenga (*Serchhip*) ; H. Thansanga (*Suangpuilawn*) ; Hrangaia (*Tlungvel*) ; Hiphei (Tuipang) ; R. Dotinaia (*Vanlaiphai — North*) ; Saithlawma (*Vanlaiphai — South*).

MYSORE LEGISLATIVE ASSEMBLY

Speaker : Mrs. K. S. Nagarathnamma.

Dy. Speaker : B. P. Kadam.

Seat : 216 ; *Electorate :* 15,083,923 ; *Votes polled :* 9,480,647. *Party position :* Congress : 164 ; Congress (Organisation) 25 ; Communist Party of India 3 ; Socialist Party 3 ; Other parties : 2 ; Independents : 20 ; Woman members : 12.

D. Balavantrao (Cong.), (*Afzalpur*) ; A. Veerabhadrappa (Cong.), (*Aland*) ; M. B. Ramaswamy (Cong.), (*Anekal-S.C.*) ; Mrs. R. K. Mahabaleshwar Bhatt (Cong.), (*Ankola*); V. S. Koujalgi (Cong.), (*Arbhavi*) ; H. N. Nanje Gowda (Cong.), (*Arkalgud*) ; H. S. Siddhappa (Cong.-O), (*Arsikere*) ; A. A. Desai (Cong.), (*Athani*) ; Bapurao Patil (Ind.), (*Aurad*) ; Venkatrao Tulasigerappa (Cong.), (*Badami*) ; B. T. Murnal (Cong.), (*Bagalkot*) ; Mrs. Renuka Rajendra (Cong.), (*Bagepalli–S.C.*) ; B. S. Patil (Cong.-O), (*Bagewadi*) ; P. B. Patil (Cong.-O), (*Bailhangal*) ; A. G. Kodgi (Cong.), (*Baindur*) ; Jetteppa Laxman Kabade (Cong.-O), (*Ballolli*) ; K. Made Gowda (Cong.-O), (*Banur*) ; B. V. Kakkilaya (C.P.I.), (*Bantwal*) ; Amir Rahamathulla Khan (Cong.), (*Basavagudi*) ; B. Anand Rao (Cong.), (*Basavakalyan*) ; Balwantrao Sayanak (Ind.), (*Belgaum*) ; V. Nagappa (Cong.-O), (*Bellary*) ; K. Subramanya Gowda (Cong.), (*Belthangady*) ; S. H. Pattaranganath (Cong.), (*Belur–S.C.*) ; K. M. Doraswami Naidu (Ind.), (*Bethamangala*) ; Abdul Khuddus Anwar (Cong.), (*Bhadravathi*) ; Subhash Assture (Cong.), (*Bhalki*) ; H. B. Lakshmana (Ind.), (*Bharamasagara–S.C.*) ; D. Poosalingam (Ind.), (*Bharathynagar*) ; Yahya Bin S. Umar (Cong.), (*Bhatkal*) ; Manik Rao R. Phulekar (Cong.), (*Bidar*) ; K. T. Rathod (Cong.), (*Bijapur*) ; G. K. Maritamappa (Cong.), (*Balgi*) ; N. S. Gurusiddappa (Ind.), (*Biligere*) ; M. Mallappa (Cong.), (*Birur*) ; Jayaprakash Shetty Kolkebali (Cong.), (*Brahmwar*) ; K. F. Patil (Cong.), (*Byadgi*).

V. Masiyappa (Cong.), (*Challakere*) ; S. Puttaswamy (Cong.). (*Chamarajanagar*) ; Vatal Nagaraj (Ind.) (*Chamarajpet*) ; K. Puttaswamy (Cong.) (*Chamundeswari*) ; N. G. Halappa (Cong.) (*Channagiri*) ; T. V. Krishnappa (Cong.) (*Channapatna*) ; Mrs. E. E. Vaz (Cong.), (*Chickmagalur*) ; C. V. Venkatarayappa (Cong.), (*Chickballapur*) ; N. Basaviah (Cong.-O), (*Chicknayakanahalli*) ; K. M. Naganna (Janata Paksha), (*Chickpet*) ; P. P. Hegre (Cong.), (*Chikodi–S.C.*) ; Devendrappa Ghallappa (Cong.), (*Chincholi*) ; Chowda Reddy (Ind.), (*Chintamani*) ; C. R. Mohamad Saifuddin (Cong.), (*Chitradurga*) ; Mrs. Vijaya Desai (Cong.), (*Chittapur*) ; Mrs. Vinnifred F. Fernandez (Cong.), (*Coondapur*) ; Mrs. C. Nagamma Keshavamurthy (Cong.), (*Davanagere*) ; A. Sharanappa (Cong.-O), (*Deodurg*) ; M. R. Jayaram (Cong.), (*Devandhally*) ; D. K. Naikar (Cong.), (*Dharwar City*) ; Mrs. Sumati B. Madiman (Cong.), (*Dharwar) Rural*) ; G. Rama Gowda (Cong.), (*Doddaballapur*) ; D. Balwant Rao (Cong.), (*Fazalpur*) ; T. R. Shamanna (Ind.), (*Fort—Bangalore Urban*).

K. H. Patil (Cong.), (*Gadag*) ; M. Nanjegowda (Cong.), (*Gandasi*) ; K. Sreeramulu (Cong.), (*Gandhinagar*) ; H. R. Sriramulu (Cong.), (*Gangavathi*) ; G. C. Thammanna (Cong.), (*Gokak–S.T.*) ; V. Krishna Rao (Cong.), (*Gowribidanur*) ; Gatti Chandra Sekhar (Cong.), (*Gubbi*) ; M. A. Mohamad Ali (Cong.), (*Gulbarga*) ; G. P. Nanjayyananath (Cong.), (*Guledgud*) ; Dedda Thimmiah (Cong.), (*Gulur–S.C.*) ; Mrs. K. S. Nagarathanamma* (Cong.), (*Gundlupet*) ; Mallikarjuna (Cong.), (*Gurumitkal–S.C.*) ; C. Andanappa (Cong.), (*Hadagalli*) ; Ghadi Virupaksha (Cong.), (*Haliyal*) ; P. C. Shettar (Cong.), (*Hangal*) ; R. Rache Gowda (Cong.), (*Hanur*) ; D. Narayana Das (Cong.), (*Harapanahalli–S.C.*) ; H. Saddaveerappa (Cong.), (*Harihar*) ; K. H. Hanume Gowda (Cong.-O), (*Hassan*) ; F. S. Taware (Cong.), (*Haveri*) ; R. Peeranna (Cong.-O), (*Heggadadevanakote–S.C.*) ; B. G. Banakar (Cong.), (*Hirekerur*) ; K. H. Ranganath (Cong.), (*Hiriyur–S.C.*) ; B. Parameswarappa (Cong.), (*Holalkere*) ; H. D. Devegowda (Cong.-O), (*Holenarasipura*) ; H. B. Kadasiddappa (Cong.), (*Honnali*) ; M. V. Rudrappa (Cong.), (*Hosadurga*) ; Shreeranaly Chandrasekhar (Cong.), (*Hosanagar*) ; N. Chikke Gowda (Cong.), (*Hoskote*) ; B. Satyanarayana Singh (Cong.), (*Hospet*) ; K. Devanagouda Patil (Cong.-O), (*Hubinhippargi*) ; I. G. Sanadi (Cong.), (*Hubli City*) ; G. R. Sandra (Cong.), (*Hubli Rural*) ; V. B. Nooli (Cong.-O), (*Hukkeri*) ; N. Hutchamasti Gowda (Cong.), (*Hulliyurdurga*) ; Mahendra Kumar Kalappa (Cong.), (*Hulsoor–S.C.*) ; V. N. Patil (C.P.I.), (*Humnabad*) ; S. B. Nagaral (Cong.), (*Hungund*) ; Devraj Urs (Cong.), (*Hunsur*) ; K. D. Patil (Cong.-O), (*Huvina Hippargi*).

M. K. Surpur (Cong.), (*Ind.*) ; G. H. Aswatha Reddy (Cong.), (*Jagalur*) ; P. M. Bangi (Cong.), (*Jamkhandi*) ; Dharm Singh Narayansingh (Cong.), (*Jewargi*) ; K. R. Honnappa (Cong.), (*Kadur*) ; R. D. Kittoor (Cong.), (*Kagwad–S.C.*) ; Channapa Gouda Patil (Cong.), (*Kalghatgi*) ; Prabhakar Telkar (Cong.), (*Kalgi*) ; T. Tare Gowda (Cong.), (*Kallambella*) ; Shivanna Beemappa (Cong.), (*Kalmala–S.C.*) ; Subhas Shankar Shetty (Cong.), (*Kamalapur*) ; S. Kariyappa (Cong.), (*Kanakapura*) ; M. Veerappa Moily (Cong.), (*Karkal*) ; B. P. Kadam (Cong.), (*Karwar*) ; B. Bhaskar Shetty (Cong.), (*Kaup*) ; B. R. Patil (M.E.S.), (*Kaurad*) ; C. N. Arumugam (R.P.I.), (*K.G.F.–S.C.*) ; N. Sardesai (Ind.), (*Khanapur*) ; G. Made Gowda (Cong.-O), (*Kirugavalu*) ; B. A. Inamdar (Cong.-O), (*Kittur*) ; D. Venkataramiah (Cong.), (*Kolar*) ; C. M. Armugam (R.P.I.), (*Kolar Gold Field-S.C.*) ; Siddamadaiah (Cong.), (*Kollegal–S.C.*) ; M. Virupakshappa (Cong.), (*Koppal*) ; Mudda Ramiah (Cong.), (*Koratagere*) ; D. Suryanarayana (Cong.), (*Krishnaraja*) ; H. B. Kenche Gowda (Cong.), (*Krishnarajanagar*) ; S. M. Lingappa (Cong.), (*Krishnarajpet*) ; S. S. Veerabhadrappa (Cong.), (*Kudligi*) ; Bettaswamy Gowda (Ind.), (*Kudur*) ; Naik Sitaram Vasudev (Cong.), (*Kumta*) ; R. V. Ranganna Gowda (Cong.), (*Kundgol*) ; Andanaiah (Cong.), (*Kunigal*); H. Linga Reddy (Cong.), (*Kurugodu*) ; K. B. Desai (Cong.), (*Kushtagi*) ; C. Nagan Patil (Cong.), (*Lingsugar*).

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* Speaker has no party affiliation.

A. D. Bili Gowda (Cong.), (*Maddur*); R. Chikkiah (Cong.), (*Madhugiri*); H. G. Channappa (Ind.), (*Magadi*); M. Mallikarjunaswamy (Cong.), (*Malavalli–S.C.*); M.S. Krishnan (C.P.I.), (*Malleswaram*); A. V. Muniswamy (Cong.), (*Malur*); M. H. Boraiah (Cong.), (*Manaya*); Mrs. Addi Saldanha (Cong.), (*Mangalore–I*); U. T. Fareed (Cong.), (*Mangalore–II*); N. Bhimanna (Cong.), (*Manvi*); A. M. Belliappa (Cong.), (*Mercara*); Papnaika Patel (Cong.), (*Molakalmuru*); Damodar Moolki (Cong.), (*Mudabidri*); M. M. Sajjan (Cong.), (*Muddebihal*); K. P. Nadagouda (Cong.), (*Mudhol*); G. Puttaswamy (Cong.), (*Mudigere S.C.*); P. Muniyappa (Ind.), (*Mulbagal*); K. H. Kuradagi (Cong.), (*Mundargi*); H. T. Krishnappa (Cong.-O), (*Nagamangala*); K. B. Shivaiah (Cong.), (*Nanjangud*); Aziz Sait (Cong.), (*Narasimharaja*); M. Rajasekharamurthy (Cong.-O), (*Narasipur*); J. Y. Venkatappa (Cong.), (*Nargund S.C.*); M. K. Kulkarni (Cong.-O), (*Navalgund*); H. Maregowda (Ind.), (*Nelamangala*); R. V. Kadam (Cong.), (*Nipani*); D. Halage Gowda (Cong.), (*Pandavapura*); S. B. Padaki (Cong.), (*Parasgad*); K. R. Thimmarayappa (Cong.), (*Pavagada—S.C.*); H. M. Chennabasappa (Cong.), (*Periyapatna*); A. Shankar Alva (Cong.), (*Puttur*).

V. Lakhgouda Patil (Cong.), (*Raibagh*); Nazir Ahmed Siddiqui (Cong.), (*Raichur*); P. Puttaswamaiah (Cong.-O), (*Ramanagaram*); R. Shivashiddanagouda Patil (Cong.), (*Ramdurg*); K. B. Koliwad (Cong.), (*Ranebennur*); A. V. Patil (Cong.), (*Ron*); J. S. Ammannavar (Cong.), (*Sadalaga*); Kagodu Thimmappa (Soc.), (*Sagar*), K. M. Rudrappa (Cong.), (*Sakalespur*); M. Y. Ghorpade (Cong.), (*Sundur*); K. B. Patil (Cong.), (*Sankeswar*); K. Siddiah (Cong.), (*Santhemaranahalli S.C.*); H. Puttadasa (Cong.), (*Sathanur S.C.*); J. P. Sarvesh (Cong.), (*Serum–S.C.*); Bapu Gouda Rayappa (Cong.-O), (*Shahapur*); K. R. Sreenivasulu Naidu (Cong.), (*Shanthinagar*); M. M. Nadaf (Cong.), (*Shiggaon*); K. Yenkatappa (Cong.), (*Shikaripur*); A. R. Badrinarayan Iyengar (Cong.), (*Shimoga*); V. V. Wai (Cong.), (*Shirahatti*); S. Hameed Shah (Cong.), (*Shivajinagar*); Rajapid Naik (Ind.), (Shorapur); H. C. Sreekantaiah (Ind.), *Shravanabelagola*); J. Venkatappa (Cong.), (*Siddlaghatta*); S. Y. Patil (Cong.-O), (*Sindgi*); B. R. Basana Gouda (Cong.), (*Sindhanoor*); B. Puttakamiah (Cong.), (*Sira*); M. H. Jaya Prakash Narayan (Cong.), (*Sirsi-S.C.*); B. E. Ramaiah (Cong.), (*Sirguppa*); R. Gundu Rao (Cong.), (*Somvarpet*); S. Bangarappa (S.P.), (*Sorab*); K. N. Veerappa Gowda (Cong.), (*Sringeri*); S. Bachi Reddy (Cong.-O), (*Srinivasapur*); Smt. Damyanthi Bore Gowda (Cong.), (*Srirangapatna*); P. D. Bangera (Cong.), (*Sullya–S.C.*); B. Subbayya Shetty (Cong.), (*Surathkal*).

M. Rajasekhara Murthy (Cong.-O), (*T. Narasipura*); Hanji Shivanna (Cong.), (*Tarikere*); Konandur Lingappa (Soc.), (*Thirthahalli*); G. N. Patil (Cong.-O), (*Tikota*); T. M. Manjunath (Cong.-O), (*Tiptur*); K. Abdul Subhan (Cong.), (*Tumkur*); B. Byrappaji (Cong.), (*Turuvekere*); P. A. Pawashe (Ind.), (*Uchagaon*); Mrs. Manorama Madhwaraj (Cong.), (*Udipi*); B. Basavalingappa (Cong.), (*Uttarahalli–S.C.*); R. Prabhakar (Cong.), (*Varthur–S.C.*); C. Byre Gowda (Ind.), (*Vemgal*); G. K. Subbiah (Cong.), (*Virajpet—S.T.*); Viswanatha Reddy (Ind.), (*Yadgir*); Suryanarayana Gowda (Cong.), (*Yelahanka*); Prabhu Raj (Cong.), (*Yelburga*); Smt. Sheila Irani (Nominated).

MYSORE LEGISLATIVE COUNCIL

Chairman: S. D. Gaonkar; *Dy. Chairman:* T. N. Narasimha Murthy; *Leader of the House:* N. H. Gowda; *Secretary:* Te Hanumanthappa.

Party position : Cong. (O) : 25 ; Cong. 23 ; Independent 8 ; Swa. 1 ; S.P. 1 ; J.S. 4 ; Vacant 1 ; Total 63. Woman members 3.

Elected by the Legislative Assembly (21)

B. Rangappa* (Cong. O.); D. Munichinnappa* (Ind.); D. Rajagopal† (Cong.); G. Venkatai Gowda* (Cong.); H. M. Ismail Tabish‡ (Cong.); H. T. Reddy‡ (Cong.); Jathappa Rai† (Cong. O); Jivaraj Hirachand Shah† (Cong. O.); K. Kannan* (Ind.); K. Rangappa‡ (Cong.); Smt. Leelamma Shivananjappa* (Cong. O.); M. C. Perumal‡ (Cong.); M. V. Venkatappa‡ (Cong.); N. Rachiah† (Cong.); P. Venkataramana† (Cong.); Ramakrishna Hegde‡ (Cong. O.); S. C. Kubasad† (Cong. O.); S. M. Krishna‡ (Cong.); T. N. Narasimhamurthy† (Cong. O.); Y. Ramachandra* (Cong.); Y. R. Parameswarappa* (S.P.).

Local Authorities' Constituency (21)

B. Channabyre Gowda* (Swa.), (*Bangalore*); B. J. Lingo Gowda† (Cong. O.), (*Bangalore*); B. S. Argavi* (Cong. O.), (*Belgaum*); Bolashetti Baburao Annappa‡ (Cong. O.), (*Belgaum*); K. Channabasavanagouda† (Cong. O.), (*Bellary*); P. M. Nadagouda‡ (Cong. O.), (*Bijapur*); N. M. Kheny* (Cong.), (*Bidar*); Channaiah Odeyar* (Cong.), (*Chitradurga*); V. S. Hiregouder* (Cong. O.), (*Dharwar*); S. R. Bommai‡ (Cong. O.), (*Dharwar*); Revanasiddappa† (Cong. O.), (Gulbarga); L. T. Karle‡ (Cong.), (*Hassan*); S. D. Gaonkar* (Cong. O.), (*Kanara North*); B. Narayana Nayak‡ (Cong. O.), (Kanara South); M. C. Anjaneya Reddy* (Ind.), (*Kolar*); M. V. Venkatappa‡ (Cong. O.), (*Mandya*); M. C. Basappa† (Cong. O.), (*Mysore-cum-Coorg*); D. Jayadevaraj Urs‡ (Cong.), (*Mysore-cum-Coorg*); K. Viswanatha Swamy† (Cong.-O), (*Raichur*); B. S. Vishwanathan† (Cong.-O), (*Shimoga-cum-Chickmagalur*); A. S. Nandeesh† (Cong.-O), (*Tumkur*).

Graduates Constituency (6)

G. S. Ullal† (J.S.), (*Bangalore*); V. S. Krishna Iyer† (Cong. O.), (*Bangalore*); Y. S. Patil‡ (J.S.), (*Mysore Central*); S. C. Edke@ (Cong. O.), (*Mysore North*); S. Mallikarjuniah‡ (J.S.), (*Mysore South-East*); A. K. Subbaiah@ (J.S.), (*Mysore South-West*).

Teachers' Constituency (6)

Vacant (*Mysore North-Central*); B. S. Ganachari‡ (Ind.), (*Mysore North-East*); M. G. Handral@ (Cong.), (*Mysore North-West*); Mallur Ananda Rao† (Ind.), (*Mysore South-Central*); Smt. Padmavathi Vittal Rao‡ (Ind.), (*Mysore South-East*); M. Satyanarayana Rao† (Ind.). (*Mysore South-West*).

Nominated (9)

Abdul Gaffar Hussain Sab† (Cong.); Basavaraja Katlimani@ (Cong.); Govind P. Vadeyaraj† (Cong. O.); K. Subba Rao@ (Cong. O.); M. L. Vasudeva Murthy@ (Cong.); M. V. Rama Rao‡ (Ind.); Smt. Praveen C. Kamalani‡ (Cong.); Shantamallappa Patil‡ (Cong.); T. V. Venkataswamy† (Cong. O.).

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* Retiring on 14th May 1974; @Retiring on 30th June 1974; † Retiring on 11th June 1976 ‡ Retiring on 30th June 1978.

NAGALAND LEGISLATIVE ASSEMBLY

Speaker : K. Shikhu Sema ; *Dy. Speaker :* T. A. Ngullie ; *Secretary (Offg.) :* A. S. Arthur.

Seats : 52 ; Elected : 40 ; Nominated 12. *Party Position :* Nagaland Nationalist Organisation 30 ; United Democratic Front 22. (There are no women members.)

K. Shikhu (NNO), (*Aitozu*) ; Hokishe Sema (NNO), (*Akuluto*) ; Zulutemba (NNO), (*Alongtaki*) ; Shurhozelie (UFN), (*Angami-North I*) ; K. Vitsore Keditsu (UDF), (*Angami-North II*) ; Vitsonei (UDF), (*Angami-South I*) ; Hosal Kin (UDF), (*Angami-South II*) ; T. N. Angami (UDF), (*Angami-West*) ; R. C. Chiten Jamir (NNO), (*Arkakong*) ; Bendangangshi (UDF), (*Aubengden*) ; T. Kikon (NNO), (*Bhandari*) ; Vamuzu (UDF), (*Chauzuba II*) ; N. Theyo (NNO), (*Chauzuba I*) ; P. Monokiu Yimchunger (NNO), (*Chessore, Tuensang*) ; Wetezulo Naro (UDF), (*Chizami*) ; M. Tsubongse Sangtam (UDF), (*Chungtore-Tuensang*) ; Deblal Mech (NNO), (*Dimapur*) ; G. C. Paira (UDF), (*Dimapur Town*) ; Langkam Kuki (NNO), (*Ghaspani*) ; M. Koramoa Jamir (NNO), (*Impur*) ; I. Arienba (UDF), (*Jangpetkong*) ; John Bosco Jasokie (NNO), (*Kohima Town*) ; Tajen Ao (UDF), (*Koridang*) ; Longyiem Konyak (NNO), (*Tuensang*).

I. L. Chingmak Chang (NNO), (*Tuensang*) ; Marhutho (NNO), (*Meluri*) ; Nsemo Ovung (UDF), (*Moilan-Wozhuro*) ; Assamwati Longkumar (UDF), (*Mokakchung Town*) ; Tingnei Konyak (NNO), (*Tuensang*) ; S. C. Jamir (UDF), (*Mongoya*) ; Zhetovi Sema (NNO), (*Tuensang*) ; N. Kielu (UDF), (*Peren*) ; Weprenyi Kapfo (UDF), (*Pfutsero*) ; Yevehu Lohe (UDF), (*Phek*) ; Hosheto Sema (NNO), (*Pughoboto*) ; M. Kithan (UDF), (*Sanis*) ; K. Yeshito (NNO), (*Satakha*) ; Kichingse Sangtam (NNO), (*Tuensang*) ; Chingwang Talem Konyak (NNO), (*Shiyong-Tuensang*) ; K. Akum Imlong (UDA), (*Tuensang*) ; Nihovi Sema (NNO), (*Suruhoto*) ; Tochi Hanso (NNO, (*Tuensang*) ; Thanglong Konyak (NNO), (*Tuensang*) ; Riga Thong (NNO), (*Tseminyu*) ; N. Azu Newmai (UDF), (*Tening*) ; I. Merrachiba (NNO), (*Tuli*) ; T. A. Ngullie (NNO), (*Tuyi Longchum*) ; N. L. Odyuo (NNO), (*Wokha*) ; Oditemba Phom (NNO), (*Yachem-Tuensang*) ; Sentichuba (UDF), (*Yisemyong*) ; Tokheho Sema (NNO), (*Zunhebato*) ; Ihezhe Zhimomi (NNO), (*Aghunato*).

N. N. O. : Nagaland Nationalist Organisation ; U. D. F. United Democratic Front.

ORISSA LEGISLATIVE ASSEMBLY

The assembly was dissolved on March 3, 1973 and President's rule was imposed in the State.

PONDICHERRY LEGISLATIVE ASSEMBLY

Speaker : M. L. Selvaraj ; *Dy. Speaker :* Kami Chetty.

No. of Constituencies : 30 (Pondicherry 20, Karikal 7, Mahe 2, Yanam 1) ; Woman member : 1.

An estimate of party position is as follows : D.M.K. 15 ; Congress 7 ; Congress (O) 3 ; C.P.I. 2 ; Independent 2 ; Vacant 1 ; No. of women members 1.

P. C. Purushothama Reddiar (Cong.), (*Ariyankupan*) ; K. Krishnasamy (S.C.) (Cong.), (*Bahour*) ; C. M. Achraff (D.M.K.), (*Bussy*) ; M. O. H. Farook (D.M.K.), (*Calapeth*) ; P. Ansari Doraisamy (Cong. (O)), (*Cassicade*) ; Balaya *alias* Balakrishnan (S.C.) (D.M.K.), (*Cotchery*) ; G. Perumal Raja (D.M.K.), (*Couroussoucoupom*) ; K. R. Subramanya Padayachi (Cong.(O)), (*Courouvinattam*) ; Smt. M. Veerammal (S.C.) (Cong.), (*Embalam*) ; V. Pandarinathan (D.M.K.), (*Grand Aldee*) ; M. Jambulingam (Cong. (O)), (*Karikal North*) ; Marie Lourdes Selvaradjou (D.M.K.) (*Karikal South*).

I. K. Kumaran (Ind.), (*Mahe*) ; S. M. Subbarayan (D.M.K.), (*Mannadipeth*) ; Vacant (*Modeliarpeth*) ; K. Murugaiyan (D.M.K.), (*Mouttalpeth*) ; P. Shanmugam (Cong.), (*Nedounoadou*) ; N. Ranganathan (C.P.I.) ; (*Nellitope*) ; S. Ramasamy (D.M.K.), (*Neravy*) ; D. Ramachandran (D.M.K.), (*Nettapacom*) ; S. Muthu (D.M.K.), (*Oulgaret*) ; S. Govindarajalu (D.M.K.), (*Oupalom*) ; V. Nagarathinam (S.C.) (Cong.), (*Oussoudou*) ; V. N. Purushothaman (Cong.), (*Pallour*) ; N. Gurusamy (C.P.I.), (*Poudousaram*) ; D. Kantharaj (Cong.), (*Raj Nivas*) ; R. Supparayalu Naicker (D.M.K.), (*Tirnoular*) ; M. Thangavelu (S.C.) (D.M.K.), (*Tiroubouvane*) ; S. Arumugam (D.M.K.), (*Villenour*) ; Kamichetty P. Varaprasada Rao Naidu (Ind.), (*Yanam*).

PUNJAB LEGISLATIVE ASSEMBLY

Speaker : Darbara Singh ; *Dy. Speaker :* Kewal Krishan.

Seats : 104 ; *Electorate :* 7,179,085 ; *Votes Polled :* 4,973,011 ; Party position : Congress 66 ; Communist Party of India 10 ; Shiromani Akali Dal 25 and Others including Independents 3. Woman Members : 6.

Bal Ram Chaudhri (Cong.), (*Abohar*) ; Harbhajan Singh (Ind.), (*Adampur*) ; Harcharan Singh (Cong.), (*Ajnala*) ; Harchand Singh (Cong.), (*Amloh—S.C.*) ; Pratap Chand Bhandari (Cong.), (*Amritsar Central*) ; Gian Chand Kharbanda (Cong.), (*Amritsar East*) ; Prithipal Singh (Cong.), (*Amritsar South*) ; Satya Pal Dang (C.P.I.), (*Amritsar West*) ; Giani Zail Singh (Cong.), (*Anandpur Sahib*) ; Gurdit Singh (Cong.), (*Attari—S.C.*) ; Gurcharan Singh (Cong.), (*Baghapurana*) ; Jagat Ram (Cong.), (*Banga—S.C.*) ; Dalip Chand (Ind.), (*Balachaur*) ; Hans Raj Sharma (Cong.), (*Banur*) ; Umrao Singh (Cong.), *Bara Pindi*) ; Surjit Singh (S.A.D.), (*Barnala*) ; Vishva Mittar (Cong.), (*Batala*) ; Sohan Singh (Cong.), (*Beas*) ; Kundan Singh Patang (S.A.D.), (*Bhadaur—S.C.*) ; Kesho Ram (Cong.) (*Bhatinala*) ; Gurudev Singh (Cong.), (*Budhlada*) ; Jasdev Singh Sandhu (S.A.D.), (*Dakala*) ; Basant Singh Khalsa (S.A.D.), (*Dakha—S.C.*) ; Sat Pal Singh (Cong.), (*Dasuya*) ; Sukhdev Singh Dhindsa (Ind.), (*Dhanaula*) ; Mrs. Kulwant Kaur (S.A.D.), (*Dharamkot*) ; Rajkumar (C.P.I.), (*Dhariwal*) ; Achhra Singh (C.P.I.), (*Dhuri*) ; Jai Muni (Cong.), (*Dina Nagar—S.C.*) ; Gurdev Singh Badal (S.A.D.), (*Faridkot—S.C.*) ; Santokh Singh (Cong.), (*Fategarh*), Kanshi Ram (Cong.), (*Fazilka*) ; Balmukand Sharma (Cong.) ; (*Ferozepur*) ; Mohinder Singh (S.A.D.) (*Ferozepur Cantt.*).

Darshan Singh Canadian (C.P.I.), (*Garhshankar*), P. S. Badal (S.A.D.), (*Giddarbaha*) ; Khushal Bahl (Cong.), (*Gurdaspur*) ; Lachhman Singh (Cong.), (*Guruhar Sahai*) ; Kundan Singh (Cong.), (*Hoshiarpur*) ; Tara Singh Chheena (S.A.D.), (*Jagraon*) ; Mehtab Singh (C.P.I.), (*Jalalabad*) ; K. P. Darshan Singh (Cong.), (*Jamsher—S.C.*) ; Karnail

Singh Marhari (S.A.D.), (*Jandiala—S.C.*) ; Balbir Singh (Cong.), (*Jullundur Cantt.*) ; Gurdial Saini (Cong.), (*Jullundur North*) ; Yash Pal (Cong.), (*Jullundur South*) ; Kirpal Singh Dhillon (Cong.), (*Kapurthala*) ; Gurbanta Singh (Cong.), (*Kartarpur—S.C.*) ; Mrs. Jaswant Kaur (Cong.), (*Khadoor Sahib*) ; Prithvi Singh Azad (Cong.), (*Khanna—S.C.*) ; Shamsher Singh Josh (C.P.I.), (*Kharar*) ; Jaswinder Singh Brar (S.A.D.), (*Kot Kapura*) ; Capt. Rattan Singh (Cong.) (*Kum Kalan*).

Danna Ram (C.P.I.), (*Lambi—S.C.*) ; Brish Bhan (Cong.), (*Lehra*) ; Sardari Lal Kapoor (Cong.), (*Ludhiana North*) ; Jaginder Pal Pandey (Cong.), (*Ludhiana South*) ; Gurmail Singh (Cong.), (*Mahilpur—S.C.*) ; Kirpal Singh Randhawa (Cong.), (*Majitha*) ; Mrs. Sajda Begum (Cong.), (*Malerkotla*) ; Smt. Gurbinder Kaur Brar (Cong.), (*Malout*); Jangir Singh Joga (C.P.I.), (*Mansa*) ; Mrs. Gurdev Kaur Gill (Cong.), (*Moga*) ; Ajaib Singh Sandhu (S.A.D.), (*Morinda—S.C.*) ; Kewal Krishan (Cong.), (*Mukerian*) ; Ujagar Singh (Cong.) ; (*Muktsar—S.C.*) ; Gurdarshan Singh (Cong.), (*Nabha*) ; Darbara Singh (Cong.)*, (*Nakodar*) ; Miss Sarla Prashar (Cong.), (*Nangal*) ; Sunder Singh (Cong.), (*Narot Mehra—S.C.*) ; Dhanna Singh Gulshan (S.A.D.), (*Nathana—S.C.*) ; Dilbagh Singh (Cong.), (*Nawan Shahr*) ; Saggar Singh (C.P.I.), (*Nihal Singhwala—S.C.*) ; Darshan Singh (Cong.), (*Nurmahal*) ; Surjit Singh Sidhu (S.A.D.), (*Pakka Kalam*) ; Ram Singh (Cong.), (*Pathankot*) ; Prem Gupta (Cong.), (*Patiala*) ; Surinder Singh (Cong.), (*Patti*) ; Beant Singh (Cong.), (*Payal*) ; Paira Ram Dhanowali (Cong.), (*Phagwara*) ; Surjit Singh Atwal (Cong.), (*Phillaur*) ; Harbans Singh Jalal (S.A.D.), (*Phul*) ; Satnam Singh Bajwa (S.A.D.), (*Qadian*) ; Arjan Singh Litt (S.A.D.), (*Quila Raipur*) ; Jagdev Singh Talwandi (S.A.D.), (*Raikot*) ; Prem Singh (Cong.), (*Raipur*) ; Brij Lal Goel (Cong.), (*Rajpura*) ; Gurbachan Singh (Cong.), (*Ropari*) ; Gurdev Singh Sidhu (S.A.D.), (*Samana—S.C.*) ; Prehlad Singh (S.A.D.), (*Samrala*) ; Gurbux Singh Sibia (Cong.), (*Sangrur*) ; Balvinder Singh Bhunder (S.A.D.), (*Sardulgarh*) ; Guran Das Hans (Cong.), (*Sham Chaurasi—S.C.*) ; Chand Singh Chopra (C.P.I.-M.), (*Sherpur—S.C.*) ; Randhir Singh Cheema (S.A.D.), (*Sirhind*) ; Waryam Singh (Cong.), (*Srihargobindpur*) ; Sadhu Singh (Cong.), (*Sultanpur*) ; Gurbachan Singh (S.A.D.), (*Sunam*) ; Sukhdev Singh Dhillon (S.A.D.), (*Talwandi Sabo*) ; Dr. Amir Singh Kalkat (Cong.), (*Tanda*) ; Dilbagh Singh Daleke (Cong.), (*Tarn Taran*) ; Arjan Singh Mastana (C.P.I.), (*Valtoha*) ; Gurmej Singh (Cong.), (*Verka—S.C.*) ; Nasib Singh Gill (Cong.), (*Zira*).

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* Speaker has no party affiliation.

RAJASTHAN LEGISLATIVE ASSEMBLY

Speaker : Ram Kishore Vyas.

Deputy Speaker : Ram Narain Chowdhary.

Seats : 184. Party position : Congress : 144 ; Swatantra Party : 11 ; Jan Sangh : 7 ; Communist Party of India : 4 ; Socialist Party : 4 ; Congress (O) : 1 ; Independent : 13 ; Woman Members : 7.

Bhura Ram (Cong.), (*Abu—ST*) ; Mrs. Samunder Kanwar (Cong.), (*Ahore*) ; Mrs. Shakuntala Shrivastav (Cong.), (*Amer*) ; Manik Chand Sogani (Cong.), (*Ajmer East*) ; Kishan Motwani (Cong.), (*Ajmer West*) ; Bhairu Lal (Cong.), (*Aklera*) ; Ramanand (CPI), (*Alwar*) ; Kishan Singh Chudawat (Ind.), (*Asind*) ; Ramcharan (Cong.), (*Aatru—SC*).

Nathu Ram (Cong.), (*Bagidora ST*) ; Hanuman Sahai (Ind.), (*Bairath*) ; Bharatlal (Cong.), (*Baman Vas—SC*) ; Mohan Raj Jain (Cong.), (*Bali*) ; Harideo Joshi (Cong.), (*Banswara*) ; Bishambhar Nath Joshi (Cong.), (*Bandikui*) ; Yaswant Singh (Cong.), (*Banera*) ; Badriprasad Gupta (Cong.), (*Bansur*) ; Shiv Narain (Cong.), (*Baran*) ; Ram Lal (Ind.), (*Bari—SC*) ; Lalit Singh (Cong.), (*Barisadari*) ; Virdhi Chand Jain (Cong.), (*Barmer*) ; Munshi Lal Mahawar (Cong.), (*Bassi—SC*) ; Girraj Prasad (Cong.), (*Bayana*) ; Keshri Mal (CPI), (*Beawar*) ; Hari Singh (Cong.), (*Begun*) ; Ghasi Ram Yadav (Cong.), (*Behrur*) ; Gyan Singh (Cong.), (*Bhadra*) ; Brijendra Singh (Ind.), (*Bharatpur*) ; Chiman Singh Bhatti (Cong.), (*Bhim*); Bhanwar Lal Bhadada (Cong.), (*Bhilwara*) Bhagwati Devi (Cong), (*Bhinai—SC*) ; Poonam Chand Vishnoi (Cong.), (*Bhinmal*) ; Kaluram Arya (Cong.), (*Balara—SC*) ; Gopal Joshi (Cong.), (*Bikaner*) ; Rajindra Kumar Bhartiya (Cong.), (*Bundi*).

Jag Mohan Singh (Cong.), (*Chhabra*) ; Rawat Ram (Cong.), (*Chhapar—SC*) ; Abdul Hadi (Cong.), (*Chohtan*) ; Ram Kishore Vyas (Ind.), (*Chomu*) ; Ram Chandra Set (Cong.), (*Chorasi—ST*) ; Moharsingh Rathod (Cong.), (*Chooni*).

Onkar Lal Chauhan (Cong.), (*Dag—SC*) ; Narayan Singh (Cong.), (*Dantaramgarh*) ; Mool Chand Samaria (Swa.), (*Dausa—SC*) ; Bhoma Ram (Swa.), (*Deedwana*) ; Karan Singh (Cong.), (*Deeg*) ; Ram Raghunath Singh (Cong.), (*Degana*) ; Jethmal Arya (Cong.), (*Deodar*) ; Dinesh Rai Dangi (Cong.), (*Desuri*) ; Banwarilal (Cong.) (*Dholpur*) ; Mrs. Nagendra Bala (Cong.), (*Digod*) ; Kamla Bainiwal (Cong.), (*Dudu*) ; Luna Ram (Cong.), (*Dungargarh*) ; Laxman Singh (Swa.), (*Dungarpur*).

Jhabar Mal (Cong.-O), (*Fatehpur*) ; Janardan Singh (Cong.), (*Gandhinagar*) ; Kedar Nath (SP), (*Ganganagar*) ; Harish Chandra Agrawal (Cong.), (*Gangapur*) ; Alka Ram (Cong.), (*Gogunda*) ; Ganga Ram Chaudhary (Cong.), (*Gudhamalani*) ; Rameshwar Lal (Ind.), (*Gudha*).

Ramchandra Chaudhary (Cong.), (*Hanumangarh*) ; Girdhari Lal Bhargaw (JS), (*Hawamahal*) ; Umedi Lal (JS), (*Hindaun SC*) ; Ramesh Chand (Cong.), (*Hindoli*).

Mool Chand (Cong.), (*Jahazpur—ST*) ; Bhopal Singh (Cong.), (*Jaisalmer*) ; Sukh Lal Sanoha (Cong.), (*Jaitaram*) ; Sahadeo Sharma (Cong.), (*Jamwaramgarh*) ; Virdaram Phulvaria (Cong.), (*Jalaur*) ; Ram Singh Kudi (Ind.), (*Jayal*) ; Ramprasad Bohara (Cong.), (*Jhalara Patan*) ; Sumitra Singh (Cong.), (*Jhunjhunu*) ; Guman Mal Lodha (J.S.), (*Jodhpur*) ; Mohd. Gaffar Ali (CPI), (*Johari Bazar*) ; Manoharlal (JS), (*Kauma*).

Shankar Lal Jat (Cong.), (*Kapasan*) ; Gurdayal Singh Sandhu (S.P.), (*Karanpur*) ; M. K. Brijendra Pal (Ind.), (*Kurauli*) ; Gokal Chand (Cong.), (*Kathumar*) ; Mrs. Jamuna Solanki (Cong.), (*Kekda*) ; Manfulram (Cong.), (*Kesari Singh*) ; Ram Gopal (Cong.), (*Kishan Ganj—ST*) ; Sampat Ram (Cong.), (*Khairthal*) ; Ram Gopal Shishodia (Cong.), (*Khandar—SC*) ; Gopal Singh (Ind.), (*Khandela*) ; Gauri Shankar Munim (Cong.), (*Khanpur*) ; Dalpat Singh (Cong.), (*Kharchi*) ; Vidya Sagar (Cong.), (*Kherwara—ST*) ; Ramji Lal (Swa.), (*Khetri*) ; Partap Singh (Swa.), (*Kishangarh*) ; Shriram Gotewala (Cong.), (*Kishanpole*) ; Kanta Kathuria (Cong.), (*Kolayat*) ; Bhuvanesh Chaturvedi (Cong.), (*Kota*) ; Heera Lal (Cong.), (*Kumbhalgarh*) ; Raja Man Singh (Ind.), (*Kumbher*) ; Jithing (S.P), (*Kushalgarh*).

Keshar Deo (Swa.), (*Lachmangarh—SC*) ; Deepankar (Cong.), (*Ladnu*) ; Mithalal Minna (Swa.), (*Lalsoot—ST*) ; Jai Narain Set (Cong.), (*Lasodia—ST*) ; Ram Singh Vishnoi (Cong.), (*Looni*) ; Bhim Sen (Cong.), (*Lunkaramsar—SC*).

Vishambhar Dayal Bohara (Ind.), (*Mahuwa*); Mrs. Gauri Pooniya (Cong.), (*Makrana*); Surendra Prasad (Cong.), (*Malpura*); Vijay Singh Rathod (Cong.), (*Mandal*); Shiv Charan Mathur (Cong.), (*Mandalgarh*); Ram Narain Chowdhary (Cong.), (*Mandawa*); Ganeshlal Paliya (Cong.), (*Mangrar—SC*); Narain Singh (Cong.), (*Masuda*); N. N. Acharya (Ind.), (*Mavli*); Ramlal (Cong.), (*Medta*); Ramsingh Yadav (Cong.), (*Mundwar*); Natha Singh Yadav (Cong.), (*Nadbai*).

Hajee Usman (Cong.), (*Nagaur*); Shankar Singh Rawat (Cong.), (*Nasirabad*); Manoharlal Kothari (Cong.), (*Nathdwara*); Bhanwar Singh Shekhawat (Cong.), (*Nawalgarh*); Rameshwar Lal Chawdhari (Cong.), (*Nawan*); Shreeniwas Sharda (Cong.), (*Neembakeda*); Malla Ram (J.S.), (*Neem-ka-Thana*); Banwarilal (Cong.), (*Niwai—SC*); Bhim Raj (Cong.), (*Nohar*); Chunnilal Indalia (Cong.), (*Nokha—SC*); Ranjit Sing (Cong.), (*Osinya*).

Madan Kaur (Cong.), (*Pachpadra*); Mahendra Kumar Parmar (Cong.), (*Padwa—ST*); Shankarlal (Cong.), (*Pali*); Nand Lal Bairawa (Cong.), (*Patan—SC*); Jai Kishan Tosawada (Cong.), (*Phagi—SC*); Lala (Cong.), (*Phalasia—ST*); Jethmal Barbad (Cong.), (*Parbatsar—SC*); Mohanlal Chhangani (Cong.), (*Phalodi*); P. K. Choudhari (Cong.) (*Phulera*); Jan Mohd. Khan (Cong.), (*Pidawa*); Shishram Ola (Cong.), (*Pilani*); Gopilal (Cong.), (*Pipalda*); Vithal (SP), (*Pipalkhunt*); Harlal Minna (Cong.), (*Pratap Garh—ST*); Mrs. Prabha Mishra (Cong.), (*Pushkar*).

Bega Ram (Swa.), (*Raisinghnagar—SC*); Pradhuman Singh (Cong.), (*Rajakhera*); Harikishan (Ind.), (*Rajgarh*); Nana Lal (Cong.), (*Raj Samand—SC*); Jujhar Singh (Cong.), (*Ramganj-Mandi*); Shobha Ram (Cong.), (*Ramgarh*); Bhagraj Chowdhary (Cong.), (*Raniwara*); Jetmal Arya (Cong.), (*Reodar—SC*).

Ram Singh (Cong.), (*Sadulpur*); Jawahar Mal (Cong.), (*Sahada*); Roshan Lal Sharma (Cong.), (*Salumber*); Bheekka Bai (Cong.), (*Sangariya*); Birbal (Cong.), (*Sangaria—SC*); Raghunath Vishnoi (Cong.), (*Sanchore*); Devi Lal Minna (Cong.), (*Sarada—ST*); Chandan Mal Vaidya (Cong.), (*Sardar Shahr*); Amrilal (Cong.), (*Sardarpura*); Rajkumar (Cong.), (*Sapotara—ST*); Farooq Hasan (Cong.), (*Sawai Madhopur*); Bhura Raigar (Cong.), (*Shahpura—SC*); Khet Singh Rathod (Cong.), (*Shergarh*); Hukam Singh (Cong.), (*Shiv*); Gordhan Singh (Swa.), (*Sikar*); Ramchandra (Cong.), (*Sikrai—ST*); Shanti Lal Kothari (Cong.), (*Sirohi*); Jesa Ram (Cong.), (*Siwan—SC*); Pukh Raj Kalani (Cong.), (*Sojat*); Sanwar Mal Maur (Cong.), (*Srimadhopur*); Phool Chand Jain (Cong.), (*Sujanagarh*); Sajjan Singh (Cong.), (*Sumerpur*); Sunder Lal (Cong.), (*Surajgarh—SC*); Yogendra Nath Handa (CPI), (*Suratgarh*).

Laxmi Narain (Swa.), (*Thaagasi*); Barkatullah Khan (Cong.), (*Tijara*); Chet Ram (Cong.), (*Toda Bhim—ST*); Chatarbhooj (Cong.), (*Todaraisingh*); Ajeet Singh (J.S.), (*Tonk*).

Bhanu Kumar Shastri (J.S.), (*Udaipur*); Rao Raja Raja Rajendra Singh (Cong.), (*Uniana*).

Gulab Singh Shaktawat (Cong.), (*Vallabhnagar*).

Mrs. Usha Prakash (Cong.), (*Weir*).

TAMIL NADU LEGISLATIVE ASSEMBLY

Deputy Speaker: P. Srinivasan.

Total Seats : 234 ; Nominated 1 ; Electorate : 23,064,985 ; Votes polled: 16,567,462 ; Invalid votes: 810,661. No. of Woman Members : 6.

Estimate of Party position : D.M.K. 171 ; Congress-O 13 ; A.D.M.K. 13 ; Congress 6 ; Swatantra 5 ; Communist Party of India 8 ; Forward Block 7 ; Muslim League 6 ; Tamil Arasu Kazhagam 1 ; Independents 3 ; Nominated 1.

V. Balasundaram (D.M.K.), (*Acharapakkam — S. C.*); K. Rajamanickam (D.M.K.), (*Aduthurai*); K. V. Subbiah (D.M.K.), (*Alangudi*); V. Arunachalam (D.M.K.), (*Alangulam*); S. Sangumuthu Tevar (Cong.-O), (*Ambasamudram*); M. Panneerselvam (D.M.K.), (*Ambur—S.C.*); E. M. Natarajan (D.M.K.), (*Andhiyur*); S. Sadasivam (D.M.K.), (*Andimadam*); N. V. Gurusami (Swa.), (*Andipatti*); S. Ramanathan (D.M.K.), (*Arantangi*); V. M. Abdul Jabbar (M.L.), (*Aravakurichi*); N. Veerasami (D.M.K.), (*Arcot*); G. Sivaperumal (D.M.K.), (*Ariyalur*); N. S. Balaraman (D.M.K.), (*Arkonam*); A. C. Narasimhan (D.M.K.), (*Arni*); Sowdisundara Bharathi (F.B.), (*Aruppukkottai*); A. M. T. Nachiappan (D.M.K.), (*Athoor*); V. Palanivel (D.M.K.), (*Attur*); T. O. Periaswami (D.M.K.), (*Avanashi*); M. R. Kannan (D.M.K.), (*Basin Bridge*); A. M. Raja (D.M.K.), (*Bhavani*); V. K. Ramarasan (D.M.K.), (*Bhavanisagar—S.C.*); M. A. Abusali (M.L.), (*Bhuvanagiri*); M. Surulivel (D.M.K.), (*Bodinayakanur*).

C. Pandurangam (D.M.K.), (*Chengam—S.C.*); D. S. A. Sivaprakasam (Swat.), (*Cheranmahadevi*); K. Govindan (D.M.K.), (*Chayyar*); P. Ponchokkalingam (D.M.K.), (*Chidambaram*); C. G. Viswanathan (D.M.K.), (*Chingleput*); K. Ranganathan (D.M.K.), (*Coimbatore—East*); P. Gopal (D.M.K.), (*Coimbatore—West*); A. Pauliah (Cong.-O), (*Colachel*); J. Karunainathan (D.M.K.), (*Coonoor*); R. Govindarasan (D.M.K.), (*Cuddalore*); K. P. Gopal (Cong.-O), (*Cumbum*); Mrs. V. P. Palaniammal (D.M.K.), (*Dharapuram*); R. Chinnaswamy (D.M.K.), (*Dharmapuri*); O. N. Sundaram (Cong.-O), (*Dindigul*); A. Arumugam (D.M.K.), (*Edappadi*); Arangannal Rama (D.M.K.), (*Egmore*); M. Subramanyam (D.M.K.), (*Erode*); Govindarajan (A.D.M.K.), (*Gandarvakottai*); A. Karuppiah (D.M.K.), (*Gangaikondam—S.C.*); S. Sahadevan (D.M.K.), (*Gingee*); Dr. S. M. Palaniappan (D.M.K.), (*Gobichettipalayam*); K. H. Bomman (Swa.), (*Gudalur—S.C.*); E. K. Duraisami (D.M.K.), (*Gudiyattam*); K. Vezhavendan (D.M.K.), (*Gummidipundi*); A. M. Mohideen (M.L.), (*Harbour*); S. A. Chinnaraju (D.M.K.), (*Harur—S.C.*); B. Venkataswamy (Swa.), (*Hosur*); V. Malaikannan (D.M.K.), (*Ilayankudi*); A. Chinnasamy (D.M.K.), (*Jayankondan—S.C.*).

C. Ramalingam (D.M.K.), (*Kadaladi—S.C.*); A. Parandaman (D.M.K.), (*Kadambathur*); Karunagiri Muthia (Cong.-O), (*Kadavur*); A. R. Subbiah (D.M.K.), (*Kadayanallur*); S. Murugaiyan (D.M.K.), (*Kalasapakkam*); D. Kesavalu (D.M.K.), (*Kallakurichi*); C. V. M. Annamalai (D.M.K.), (*Kancheepuram*); M. Raman (D.M.K.), (*Kandamangalam —S.C.*); Kovaichezhian (D.M.K.) (*Kangeyam*); Thoppur Thiruvengadam (D.M.K.), (*Kaniyambadi*); V. K. Rajah Pillai (D.M.K.), (*Kanyakumari*); C. V. Velappan (A.D.M.K.), (*Kapilamalai*); C. T. Chidambaram (D.M.K.), (*Karaikudi*); A. R. Perumal (F.B.), (*Kariappatti*); S. Nallaswamy (D.M.K.), (*Karur*); Durai Murugan (D.M.K.), (*Katpadi*); S. Perumal (D.M.K.), (*Kattumannarkoil*); V. C. Govindaswami (D.M.K.), (*Kaveripattinam*); N. Dennis (Cong.-O), (*Killiyur*); M. Kannappan (D.M.K.), (*Kinattukadavu*); K. Periasami (D.M.K.), (*Kodavasal*); S. Alagarsamy (C.P.I.), (*Koilpatti*); A. K. Subbiah (C.P.I.), (*Kottur—S.C.*); C. Manniappan (D.M.K.), (*Krishnagiri*); P. Soundara Pandian (A.D.M.K.), (*Krishnarayapuram—S.C.*); M. Kandaswamy (D.M.K.), (*Kulithalai*); N. Kasiraman (Cong.), (*Kumbakonam*); M. Gopal (D.M.K.), (*Kunnathur—S.C.*); N. Rajangam (D.M.K.), (*Kurinjipadi—S.C.*); S. Ganesan (D.M.K.), (*Kuttalam*).

V. N. Muthamil Selvan (D.M.K.), (*Lalgudi*) ; K. Thiruppathi (D.M.K.), (*Madurai—Central*) ; K. S. Kuppal Ramakrishnan (D.M.K.), (*Madurai East*) ; K. T. K. Thangamani (C.P.I.), (*Madurai—West*) ; T. Soniah (D.M.K.), (*Manamadurai*) ; G. Jabamalai (D.M.K.), (*Mangalur—S.C.*) ; K. Balakrishnan (D.M.K.), (*Mannarkudi*) ; C. Arumugam (D.M.K.), (*Mathuranthagam*) ; N. Kittappa (D.M.K.), (*Mayuram*) ; R. R. Munuswami (D.M.K.), (*Melamalayanur*) ; S. Mohd. Kother Mohideen (M.L.), (*Melappalayam*) ; M. Andi Ambalam (Cong.-O), (*Melur–North*) ; O. P. Raman (D.M.K.), (*Melur–South S.C.*) ; M. C. Thooyamani (D.M.K.), (*Mettupalayam*) ; M. Surendran (Cong.), (*Mettur*) ; M. Chinnaswami (D.M.K.), (*Modakkurichi*) ; Mrs. A. G. Padmavathi (D.M.K.), (*Mugaiyur*) ; Kadher Batçha alias Vellaichamy (Ind.), (*Mudukulathur*) ; P. S. Muthuselvan (D.M.K.), (*Musiri*) ; Mrs. T. N. Anandanayaki (Cong.), (*Mylapore*) ; A. Rajamanickam (D.M.K.), (*Nagapattinam*) ; M. Moses (Swa.), (*Nagercoil*) ; M. U. Palanivelan (D.M.K.), (*Namakkal*) ; T. Ganapathi (D.M.K.), (*Nanguneri*) ; A. Devendran (D.M.K.), (*Nannilam—S.C.*) ; T. C. Thimmaraya Gounder (D.M.K.), (*Natrampalli*) ; V. Krishnamurthi (D.M.K.), (*Nellikuppam*) ; A. Muniandi (D.M.K.), (*Nilakkottai—S.C.*) ; N. Nachimuthu (D.M.K.), (*Oddanchatram*) ; V. Chelladurai (D.M.K.), (*Omalur–S.C.*) ; M. Devarajan (D.M.K.), (*Ootacamund*) ; L. Ganesan (D.M.K.), (*Orathamad*) ; M. Muthiah (F.B.), (*Ottapidram–S.C.*).

A. Swamidas (Cong.-O), (*Padmanabhapuram*) ; M. V. Karivengadam (D.M.K.), (*Palacode*) ; C. Palaniswamy (D.M.K.), (*Palani—S.C.*) ; K. N. Kumaraswamy (Cong.), (*Palladam*) ; T. Ponnumalai (D.M.K.), (*Panamarathupatti*) ; S. Ramachandran (D.M.K.), (*Panruti*) ; N. Ganapathy (D.M.K.), (*Papanasam*) ; T. K. Siraimeettan (D.M.K.), (*Paramakudi—S.C.*) ; Dr. H. V. Hande (A.D.M.K.), (*Park Town*) ; A. R. Marimuthu (Cong.), (*Pattukottai*) ; N. Manickkam (D.M.K.), (*Pennagaram*) ; J. S. R. Raju (D.M.K.), (*Perambalur—S.C.*) ; Dr. Satyavani Muthu (D.M.K.), (*Perambur—S.C.*) ; P. Ettiappan (D.M.K.), (*Pernamallur*) ; N. Krishnan (D.M.K.), (*Peranamapattu—S.C.*) ; K. Chelliah (A.D.M.K.), (*Peravurani*) ; Anbucheliyan (D.M.K.), (*Periakulam*) ; N. K. Palaniswamy (C.P.I.), (*Perunthurai*) ; N. Marudachalam (C.P.I.), (*Perur—S.C.*) ; A. P. Shanmughasundaram (D.M.K.), (*Pollachi*) ; T. P. Srinivasan (D.M.K.), (*Polur*) ; N. Palaniswami (D.M.K.), (*Pongalur*) ; P. Nagalingam (D.M.K.), (*Ponneri—S.C.*) ; M. Satyamoorthy (Cong.-O), (*Pudukkotai*) ; K. Ambazhagan (D.M.K.), (*Purasawalkom*).

V. Kartheesan (D.M.K.), (*Radhapuram*) ; K. Suppu (C.P.I.), (*Rajapalayam*) ; M. S. K. Sathiyendran (D.M.K.), (*Ramanathapuram*) ; K. A. Wahab (M.L.), (*Ranipet*) ; R. Nainamalai (D.M.K.), (*Rasipuram*) ; N. Dharmalingam (D.M.K.), (*Rishivandiyam—S.C.*) ; M. Karunanidhi (D.M.K.), (*Saidapet*) ; K. Jayaraman (D.M.K.), (*Salem I*) ; K. Rajaram (D.M.K.), (*Salem II*) ; S. Subbiah (D.M.K.), (*Sankarankoil—S.C.*) ; V. Muthu (D.M.K.), (*Sankari—S.C.*) ; N. Nachiyappan (D.M.K.), (*Sankarapuram*) ; S. K. Subramaniam (D.M.K.), (*Satyamangalam*) ; K. P. Kandaswamy (D.M.K.), (*Sattangulam*) ; S. Alagu Thevar (F.B.), (*Sattur*) ; V. Thavamani Thevar (F.B.), (*Sedapatti*) ; T. V. Sampath (D.M.K.), (*Sembanarkoil*) ; Chinnavelaiyan (D.M.K.), (*Sendamangalam—S.T.*); P. S. Manian (D.M.K.), (*Sholavandan*) ; A. M. Ponnurangam (Cong.-O), (*Sholinghur*) ; A. Subramaniam (Cong.), (*Singanallur*) ; S. Vadivel (C.P.I.), (*Sirkali—S.C.*) ; S. Sethuraman (D.M.K.), (*Sivaganga*) ; K. Kalimuthu (A.D.M.K.), (*Sivakasi*) ; D. Rajarathnam (D.M.K.), (*Sriperumbudur*) ; Mrs. Jyoti Venkatachellam (Cong.-O), (*Srirangam—S.C.*) ; Adithanar (D.M.K.), (*Srivaikuntam*) ; K. Andia *alias* Guruswami (D.M.K.), (*Srivilliputhur—S.C.*) ; M. G. Ramachandran (A.D.M.K.), (*St. Thomas Mount*).

M. Marimuthu (D.M.K.), (*Talavasal—S.C.*) ; M. Paramasivam (D.M.K.), (*Taramangalam*) ; K. M. Kathiravan *alias* Shamsudeen (D.M.K.), (*Tenkasi*) ; M. S. Radhakrishnan (D.M.K.), (*Thandarambattu*) ; S. Natarajan (D.M.K.), (*Thanjavur*) ; Palanivel Rajan (D.M.K.), (*Theni*) ; K. M. Subramanyam (Cong.-O), (*Thiagarayanagar*) ; M. C. A. Rathinaswamy Thevar (F.B.), (*Thirumungalam*) ; P. R. Shanmugam (D.M.K.), (*Thiruvadanai*) ; C. Manali Kandasami (C.P.I.), (*Thiruthuraipundi*) ; G. Ilangovan (D.M.K.), (*Thiruvaiyaru*) ; K. Kamatchi (D.M.K.), (*Thiruverumbur*) ; R. Manickavasakam (D.M.K.), (*Thondamuthur*) ; S. K. Vadivel (D.M.K.), (*Thottiyam*) ; K. A. Mathiazhagan (D.M.K.), (*Thousand Lights*) ; G. Rajaram (D.M.K.), (*Tindivanam*) ; Edmund Fernando (A.D.M.K.), (*Tiruchendur*) ; S. Kandappan (D.M.K.), (*Tiruchengode*) ; V. Krishnamurthi (D.M.K.), (*Tiruchirappalli I*) ; A. P. Dharmalingam (D.M.K.), (*Tiruchirappalli II*) ; A. S. Kumaraswamy (D.M.K.), (*Tirukkoilur*) ; A. Thiagarajan (D.M.K.), (*Tirumayam*) ; P. Padmanabhan (D.M.K.), (*Tirunelveli*) ; C. Kaverimaniam (D.M.K.), (*Tirupparankundram*) ; S. Madhavan (D.M.K.), (*Tiruppathur*) ; G. Ramaswamy (D.M.K.), (*Tiruppattur*) ; Munu Adhi (A.D.M.K.), (*Tirupporur*) ; S. Doraiswamy (D.M.K.), (*Tiruppur*) ; E. S. Thyagarajan (T.A.K.), (*Tiruthani*) ; S. M. Dorairaj (A.D.M.K.), (*Tiruvallur—S.C.*) ; P. U. Shanmugham (D.M.K.), (*Tiruvannamalai*) ; M. Karunanidhi (D.M.K.), (*Tiruvarur—S.C.*) ; J. James (Cong.-O), (*Tiruvattar*) ; M. V. Narayanaswamy (D.M.K.), (*Tiruvottiyur*) ; V. R. Nedunchezhian (D.M.K.), (*Triplicane*) ; K. R. Ramalingam (D.M.K.), (Tuticorin).

K. S. Kothandaramayya (Ind.), (*Uddanapalle*) ; S. J. Sadiq Pasha (D.M.K.), (*Udumalpet*) ; V. Subramaniam (D.M.K.), (*Ulundurpet*) ; T. P. Alagamuthu (D.M.K.), (*Uppiliapuram*) ; K. Kandaswamy (F.B.), (*Usilampatti*) ; K. R. Krishnan (D.M.K.). (*Uthangarai*) ; K. M. Erasgopal (D.M.K.), (*Utteramerur*) ; K. Nagarajan (D.M.K.), (*Vadamadurai*) ; N. Somasundaram (D.M.K.), (*Valangaman—S.C.*) ; E. Ramaswami (D.M.K.), (*Valparai*) ; M. A. Latheef (M.L.), (*Vaniambadi*) ; N. Muthuvel (D.M.K.), (*Vanur—S.C.*) ; K. Palanivelan (D.M.K.), (*Varahur*) ; A. Velladurai (D.M.K.), (*Vasudevanallur*) ; M. Meenakshisundaram (D.M.K.), (*Vedaranyum*) ; P. Muthuswamy (D.M.K.), (*Vedasandur*) ; S. Arumugham (D.M K.), (*Veerapandi*) ; M. Palaniswamy (D.M.K.), (*Vellakail*) ; M. P. Sarathi (D.M.K.). (*Vellore*) ; M. Rathinasabhapathy (D.M.K.), (*Vilathikulam*) ; R. Ponnappa Nadar (Cong.-O), (*Vilavankode*) ; M. Shanmugham (D.M.K.), (*Villupuram*) ; V. S. Ilanchezhian (D.M.K.), (*Viralimalai*) ; P. Seenivasan (D.M.K.), (*Virudunagar*) ; M. Selvaraj (D.M.K.), (*Virdhachalam*) ; V. Rajagopal (D.M.K.), (*Wandiwash—S.C.*) ; M. Vedachalam (D.M.K.), (*Washermanpet*) ; V. Chinnaswami (D.M.K.), (*Yarcaud—S.T.*); Mrs. Alda M. Fowler (*Nominated*).

TAMIL NADU LEGISLATIVE COUNCIL

Chairman : C. P. Chitrarasu ; *Deputy Chairman :* M. P. Sivagnanam ; *Secretary :* G. M. Alagarswamy.

An estimate of party position in the council is as follows : Dravida Munnetra Kazhagam 33 ; Congress (O) 10 ; Congress 2 ; United Party 2 ; Indian Union Muslim League 2 ; Toilers Commonweal Party 1 ; Swatantra 3 ; Independent 6 ; Tamil Arasu Kazhagam 2 ; Forward Block 1 ; No. of women members 1.

Legislative Assembly Constituency (21)

K. S. Abdul Wahab (I.U.M.L.); M. Arumugasami (Cong.); C. P. Chitrarasu; Swa. Ganesan (Swa.); George Komagan (D.M.K.); Nagore E. M. Hanifa (D.M.K.); Kattoor Gopal (D.M.K.); C. R. Kolappa (D.M.K.); R. Krishnaswami Naidu (Cong. (O)); M. Masilamani (D.M.K.); S. Muthu (D.M.K.); T. V. Muthukrishnan (D.M.K.); N. V. Natarajan (D.M.K.); Mannai P. Narayanaswamy (D.M.K.); G. Parangusam (D.M.K.); T. K. Ponnuvelu (D.M.K.); C. V. Rajagopal (D.M.K.); S. A. Rajamanickam (D.M.K.); G. N. Raju (D.M.K.); R. Sakthimohan (F.B.); V. Thangapandian (D.M.K.).

Local Authorities Constituency (21)

Smt. Rani Annadurai (D.M.K.), (*Madras*); V. Venga (D.M.K.), (*Chingleput*); M. Ramanathan (D.M.K.), (*Coimbatore-Nilgiris*); Sengottuvelappa Gounder (Cong. (O)), (*Coimbatore-Nilgiris*); N. Wilson Apollos (Cong. (O)), (*Kanyakumari*); Ayyanan Ambalam (Ind.), (*Madurai*); K. Rajaram (Cong. (O)), (*Madurai*); L. Balaraman (Cong. (O)), (*North Arcot*); V. M. Devaraj (D.M.K.), (*North Arcot*); S. Jayarama Reddiar (Cong.), (*Ramanathapuram*); T. M. Kaliyannan (Cong. (O)), (*Salem-Dharmapuri*); S. S. Ramaswamy Padayatchi (T.C.W.P.), (*South Arcot*); P. T. Muthu (D.M.K.), (*Salem-Dharmapuri*); P. Thirugnanasambandham (D.M.K.), (*Ramanathapuram*); Era. Sambasivan (D.M.K.), (*South Arcot*); K. S. Mani (D.M.K.), (*Thanjavur*); N. Sundaresa Thevar (Cong. (O)), (*Thanjavur*); Y. Venkateswara Dikshidar (Cong. (O)), (*Tiruchirapalli*); M. K. D. Natarajan (D.M.K.), (*Tiruchirapalli*); S. T. Adityan (D.M.K.), (*Tirunelveli*); S. Vellapandian (Cong. (O)), (*Tirunelveli*).

Graduates' Constituency (6)

S. Narayanaswamy (Swa.), (*Madras Dist.*); G. Vasantha Pai (Ind.), (*Madras Dist.*); G. Swaminathan (Swa.), (*Madras East-Central*); A. R. Damodaran (United Party), (*Madras North*); D. Santosham (United Party), (*Madras South*); V. Isvarmurti (Cong. (O)), (*Madras West-Central*).

Teachers' Constituency (6)

K. Arivazhagan (D.M.K.), (*Madras Chingleput*); M. Rajah Iyer (Ind.), (*Madurai-Ramanathapuram*); Pulavar O. Arivudai Nambi (D.M.K.), (*North Arcot-South Arcot*); S. Muthuswamy (Ind.), (*Salem-Dharmapuri-Coimbatore-Nilgiris*); K. S. Ganapathi (Ind.), (*Thanjavur-Tiruchirapalli*); M. Sankaralingam Pillai (D.M.K.), (*Tirunelveli-Kanyakumari*).

Nominated (9)

M. M. Baker (I.U.M.L.); A. P. Janardhanam (D.M.K.); Kurnakkudi Adigalar (Ind.); D. V. Narayanaswamy (D M.K.); Neela Narayanan (D.M.K.), Rama Subbaiya (D.M.K.); T. K. Shanmugham (T.A.K.); M. P. Sivagnanam (T.A.K.); S. S. Thennarasu (D.M.K.).

TRIPURA LEGISLATIVE ASSEMBLY

Speaker : Manindralal Bhowmik.

Dy. Speaker : Usharanjan Sen.

Seats : 60.

Electorate : 766,093.

Party position : Congress : 41 ; C.P.I. (M) : 16 ; Independent : 2 ; C.P.I. 1 ; No. of women members : 2.

Ajoy Biswas (Ind.), (*Agartala Town–I*); Krishnadas Bhattacharjee (Cong.), (*Agartala Town–II*); Sukhamoy Sen Gupta (Cong.), (*Agartala Town–III*); Bulu Kuki (C.P.I. (M)), (*Ampinagar–ST*); Tarit Mohan Das Gupta (Cong.), (*Anandanagar*); Nripendra Chakraborty (C.P.I. (M)), (*Ashrambari*); Prafulla Kumar Das (Cong.), (*Bamutia —SC*); Smt. Basana Chakraborty (Cong.), (*Barjala*); Jitendra Lal Das (C.P.I.), (*Belonia*); Subal Chandra Biswas (Cong.), (*Bilashpur–SC*); Susil Ranjan Saha (Cong.), (*Birganj*); Samir Ranjan Barman (Cong.), (*Bishalgarh*); Sudhanwa Deb Barma (C.P.I. (M)), (*Bishramganj–S.T.*); Monchar Ali (Cong.), (*Boxanagar*).

Manindra Lal Bhowmik (Cong.), (*Chandipur*); Niranjan Deb (C.P.I. (M)), (*Charilam–ST*); Purna Mohan Tripura (C.P.I. (M)), (*Chhawmanu–ST*); Bajuban Riyan (C.P.I. (M)), (*Chellagong–ST*); Abdul Wazid (Cong.), (*Deochhera*); Samar Choudhury (C.P.I. (M)), (*Dhanpur*); Amarendra Sarma (Ind.), (*Dharmanagar*); Pakhi Tripura (C.P.I. (M)), (*Dumburnagar–ST*); Radhika Ranjan Gupta (Cong.), (*Fatikroy*); Chandrasekhar Dutta (Cong.), (*Hrishyamukh*); Naresh Roy (Cong.), (*Ishanchandranagar*); Monoranjan Nath (Cong.), (*Jubarajnagar*).

Benoy Bhusan Banerjee (Cong.), (*Kadamtala*); Moulana Abdul Latif (Cong.), (*Kailashahar*); Ajit Ranjan Ghosh (Cong.), (*Kakraban*); Bidya Chandra Deb Barma (C.P.I. (M)), (*Kalyanpur–ST*); Sunil Chandra Dutta (Cong.), (*Kamalpur*); Bichitra Mohan Saha (Cong.), (*Kamalasagar*); Raimani Riang Choudhury (Cong.), (*Kanchanpur–ST*); Jadu Prasanna Bhattacharjee (Cong.), (*Khowai*); Mongchabai Mog (Cong.), (*Kulaihower–ST*); Asok Kumar Bhattacharjee (Cong.), (*Kunjaban*).

Hangshadhwaz Dewan (Cong.), (*Longai–ST*); Jatindra Kr. Majumdar (Cong.), (*Majlispur*); Kalidas Deb Barma (C.P.I. (M)), (*Mandai Bazar–ST*); Hari Charan Choudhury (Cong.), (*Manu–ST*); Nishikanta Sarkar (Cong.), (*Matarbari*); Radharaman Deb Nath (C.P.I. (M)), (*Mohanpur*); Ananta Hari Jamatia (Cong.), (*Moharcherra–ST*); Achaichhi Mog (Cong.), (*Muhuripur–ST*); Benode Behari Das (Cong.), (*Nalchhar–SC*); Sailesh Chandra Some (Cong.), (*Old Agartala*); Gopinath Tripura (Cong.), (*Pebiacherra–ST*); Madhu Sudan Das (Cong.), (*Pratapgarh–SC*); Manindra Deb Barma (C.P.I. (M)), (*Promodnagar–ST*).

Usha Ranjan Sen (Cong.), (*Radhakishorepur*); Smt. Lakshmi Nag (Cong.), (*Rajnagar*); Kalipada Banerjee (Cong.), (*Sabroom*); Tapash Dey (Cong.), (*Salgarh*); Bhadramani Deb Barma (C.P.I. (M)), (*Simna–ST*); Debendra Kishore Choudhury (Cong.), (*Sonamura*); Radharaman Nath (Cong.), (*Sonicherra*); Kshitish Chandra Das (Cong.), (*Surma–SC*); Gunapada Jamatia (C.P.I. (M)), (*Takerjala–ST*); Anil Sarker (C.P.I. (M)), (*Teliamura–SC*); Abhiram Deb Barma (C.P.I. (M)), (*Uttar Debendranagar–ST*).

UTTAR PRADESH LEGISLATIVE ASSEMBLY

(The Assembly is suspended at the time of going to press).

UTTAR PRADESH VIDHAN PARISHAD

(The Vidhan Parishad is suspended at the time of going to press):

WEST BENGAL LEGISLATIVE ASSEMBLY

Speaker : Apurba Lal Mazumdar.

Dy. Speaker : Haridas Mitra.

Seats: 281; Electorate: 22,701,070; Votes polled: 13,718,535. An estimate of party position in the Assembly is as follows:—Congress 215; C.P.I. 35; C.P.I.(M) 14; R.S.P. 3; Independent 4; Others 7; Vacant 2; Nominated 1; Total 281. Woman members 5.

Dr. Kanai Lal Sarkar (Cong.), (*Alipore*); Narayan Bhattacharya (Cong.), (*Alipurduars*); Aftabuddin Mondal (Cong.), (*Amta*); Prafulla Chandra Sen (Cong.-O), (*Arambagh*); Nitai Deshmukh (Cong.), (*Arsha*); Niranjan Dihidar (C.P.I.-M), (*Asansol*); Keshab Chandra Bhattacharjee (Ind.), (*Ashokenagar*); Sridhar Malik (C.P.I.-M), (*Ausgram—S.C.*); Quazi Abdul Gaffer (Cong.), (*Baduria*); Apurba Lal Majumdar (Ind.), (*Bagdaha—S.C.*); Susanta Bhattacharjee (C.P.I.), (*Bagnan*); Biren Sarkar (Cong.), (*Balagarh—S.C.*); Rup Singh Majhi (Cong.), (*Balrampur—S.T.*); Bhabani Sankar Mukerjee (Cong.), (*Bally*); Subrata Mukhopadhya (C.P.I.), (*Ballygunj*); Bireswar Roy (Cong.), (*Balurghat*); S. C. Hembram (C.P.I.), (*Banduan—S.T.*); Kashinath Misra (Cong.), (*Bankura*); S. Bandyopadhyay (C.P.I.), (*Barabani*); Ramakrishna Saraogi (Cong.), (*Barabazar*); Shibapada Bhattacharjee (C.P.I.), (*Baranagar*); Kanti Ranjan Chatterjee (Cong.), (*Barasat*); Sudhangshu S. Tewari (Cong.), (*Barjora*); Lalit Mohan Gayen (Cong.), (*Baruipur—S.C.*); Sunil Mohan Ghosh Maulik (Cong.), (*Barwan*); Panchanan Sinha (Cong.), (*Basanti*); Lalit Kumar Ghosh (Cong.), (*Basirhat*); Indrajit Majumdar (Cong.), (*Behala East*); Biswanath (Chakrabarti (C.P.I.), (*Behala West*); Timir Baran Bhadun (R.S.P.), (*Beldanga*); Vacant (*Belgachia*).

Ananta Kumar Bharati (Cong.), (*Beliaghata North*); Ardhendu Sekhar Nasker (Cong.), (*Beliaghata South—S.C.*); Sankar Das Paul (Cong.), (*Berhampore*); Mohammad Dodar Bakah (Cong.), (*Bhagabangola*); Amales Jana (Cong.), (*Bhagbanpur*); Abdur Razzak Molla (C.P.I.-M), (*Bhangar*); Kumardipti Sen Gupta (Cong.), (*Bharatpur*); Bholanath Sen (Cong.), (*Bhatar*); Satya Narayan Singh (Cong.), (*Bhatpara*); Jagadish Chandra Das (Cong.), (*Bijpur*); Jairam Soren (Cong.), (*Binpur—S.T.*); Ramkrishna Bar (Cong.), (*Bishnupur East—S.C.*); Provash Chandra Roy (C.P.I.-M.), (*Bishnupur West*); Harasankar Bhattacharyya (C.P.I.), (*Bolpur*); Ajit Kumar Ganguly (C.P.I.), (*Bongar*; Bijoy Singh Naher (Cong.), (*Bowbazar*); Khiti Bhusan Roy Barman (C.P.I.-M.), (*Budge Budge*); Kashinath Ta (Cong.), (*Burdwan North*); Pradip Bhattacharyya (Cong.), (*Burdwon South*); Ajit Kumar Panja (Cong.), (*Burtola*); Gobinda Chandra Naskar (Cong.), (*Canning—S.C.*); Haridas Mitra (Cong.), (*Chakdal*); Kamala Kant Hemram (Cong.), (*Chhatna*); Girija Bhusan Mukhopadhyay (C.P.I.-M.), (*Champdani*); Bhabani Mukherjee (C.P.I.), (*Chandernagore*); Md. (Safiullah (C.P.I.-M.), (*Chanditala*); Satya Ghosal (C.P.I.), (*Chandrakona*); Ghiasuddin Ahmed (Cong.), (*Chapra*); Bhupati Majumdar (Cong.), (*Chinsurah*); Chowdhury Abdul Karim (Cong.), (*Chopra*); Sankar Ghose (Cong.), (*Choweinghee*); K. D. Mahapatra (C.P.I.), (*Contai North*); Sudhi Chandras Das (Cong.), (*Contai South*); Sunil Kar (Cong.), (*Cooch Bihar North*); Santosh Kumar Roy (Cong.), (*Cooch Bihar South*); Rajani Das (Cong.), (*Cooch Bihar West—S.C.*); Prafulla Kanti Ghosh (Cong.), (*Cossipur*).

Pradyot Kumar Mahanti (Cong.), (*Dantan*); Deo Prakash Rai (G.L.); (*Darjeeling*); Sudhir Bera (Cong.), (*Daspur*); Rabindra Nath Bera (Cong.), (*Debra*); M. Shankat Ali (Cong.), (*Deganga*); Somnath Lahiri (Cong.), (*Dhakuria*); Kashinath Patra (Cong.), (*Dhaniakhali—*(*S.C.*); Bhawani Paul (Cong.), (*Dhupguri*); Daulat Ali Sheikh (Cong.), (*Diamond Harbour*); Jogesh Chandra Sarkar (Cong.), (*Dinhata*); Krishna Pada Roy (Cong.), (*Domjur*); Dr. Ekramul Haque Biswas (Cong.), (*Domkal*); Sachinandan Sau (Cong.), (*Dubrajpur*); Lal Bahadur Singh (Cong.), (*Dum Dum*); Ananda Gopal Mukherjee (Cong.), (*Durgapur*); Samsul Alam Khan (Cong.), (*Egra*); Bimal Das (C.P.I.), (*English Bazar*); Dr. Abu Asad Mohammad O. Ghani (Cong.), (*Entally*); Jagadananda Roy (Cong.), (*Falakata—S.C.*); Mohini Mohan Parui (Cong.), (*Falta*); Jerat Ali (C.P.I.-M.), (*Farakka*); Ajit Kumar Bandyopadhyay (C.P.I.-M.), (*Faridpur*);

Vacant (*Gaighata*); Benjamin Hembrom (Cong.), (*Gajol—S.T.*); Aswin Kumar Roy (C.P.I.), (*Galsi*); Saktipada Maji (Cong.), (*Gangajalghati—S.C.*); Moslehuddin Ahmed (Cong.), (*Gangarampur*); Chhedi Lal Singh (C.P.I.-M.), (*Garden Reach*); Krishna Prasad Duley (C.P.I.), (*Garhbeta East—S.C.*); Saroj Roy (Cong.), (*Garhbeta West*); Hari Sadhan Dolui (Cong.), (*Ghatal—S.C.*); Sheikh Sharafat Hussain (Cong.), (*Goalpokar*); Madan Mohan Medda (Cong.), (*Goghat—S.C.*); Harish Chandra Mahapatra (Cong.), (*Gobiballavpore*); Paresh Chandra Baidya (Cong.), (*Gosaba—S.C.*); Rabindra Nath Murmu (C.P.I.), (*Habibpur—S.T.*); Tarun Kanti Ghosh (Cong.), (*Habra*); Ananda Mohan Biswas (Cong.), (*Hanskhali—S.C.*); Abu Raihan Biswas (S.U.C.), (*Hariharpara*); Sakti Kumar Bhattacharjee (C.P.I.), (*Haringhata*); Chittaranjan Basu (U.P.), (*Haripal*); Gautam Chakravarty (Cong.), (*Harishchandrapur*); Gangadhar Pramanik (Cong.), (*Haroa—S.C.*); Dhanapati Mal (Cong.), (*Hansan—S.C.*); Molla Tasmatullah (Cong.), (*Hasanabad*); Anil Krishna Mondal (C.P.I.), (*Hingalganj—S.C.*); Triptimay Aich (Cong.), (*Hirapur*); Mrityunjoy Banerjee (Cong.), (*Howrah Central*); Supriya Bose (Cong.), (*Howrah North*); Dr. Santi Kumar Das Gupta (Cong.), (*Howrah South*); Satadal Mahata (Cong.), (*Hura*).

Sanatan Santra (Cong.), (*Indas—S.C.*); Gour Chandra Lohar (Cong.), (*Indpur—S.C.*); Dr. Zainal Abedin (Cong.), (*Itahar*); Dinesh Mazumdar (Cong.), (*Jadavpur*); Tarapada Dey (C.P.I.-M.), (*Jagatballavpur*); Ramkrishna Mahato (Cong.), (*Jaipur*); Abdul Bari Biswas (Cong.), (*Jalangi*); Dr. Anupam Sen (Cong.), (*Jalpaiguri*); Puranjoy Pramanik (Cong.), (*Jamalpur—S.C.*); Amarendra Nath Mondal (Cong.), (*Jamuria—S.C.*); Ganesh Hatui (Cong.), (*Jangipura*); Habibur Rahaman (Cong.), (*Jangipur*); Kinkar Mahata (Cong.), (*Jhalda*); Birendra Bijoy Malla Deb (Cong.), (*Jhargram*); Smt. Ila Roy (Cong.), (*Jorabagan*); Deokinandan Poddar (Cong.), (*Jorasanko*); Nandalal Gurung (G.L.), (*Jorebunglow*); Nirad Kumar Shah (Cong.), (*Joynagar*); Ram Peyare Ram (Cong.), (*Kabitirtha*); Basudev Santya (Cong.), (*Kakadwip*); Basudev Sautya (Cong.), (*Kakadwip*); Denis Lakra (Cong.), (*Kalcluni—S.T.*); Shamsuddin Ahmad (Cong.), (*Kaliachak*); Debendra Nath Ray (Cong.), (*Kalaiganj—*(*S.C.*); Shib Shankar Bandopadhyay (Cong.), (*Kaliganj*); Rathin Talukdar (Cong.), (*Kalighat*); Gajendra Gurung (Cong.), (*Kalimpong*); Nurul Islam Molla (Cong.), (*Kalna*); Ali Ansar (Cong.), (*Kalyanpur*); Pradipkumar Palit (Cong.), (*Kamarhati*); Alish Chandra Sinha (Cong.), (*Kandi*); Haji Sajjad Hussain (Cong.), (*Karandighi*); Arbinda Mandal (Cong.), (*Karimpur*); M. M. Mahato (Cong.), (*Kashipur*); Subrata Mukherjee (Cong.), (*Katwa*); Budhan Chandra Tudu (Cong.-O), (*Keshiary—S.T.*); Rajani Kanta Doloi (Cong.), (*Keshpur—S.C.*); Prabhakar Mandal (Cong.), (*Ketugram—S.C.*); Basudeb Hajra (Cong.), (*Khanakul—S.C.*); Manoranjan Pramanik (Cong.), (*Khandghosh—S.C.*); Gyan Singh Sohanpal (Cong.), (*Kharagpur*); Ajit Kumar Basu (Cong.), (*Kharagpur* (*Local*); Mahabubul Haque (Cong.), (*Kharba*); Sisir Kumar Ghosh (C.P.I.), (*Khardah*); Haresh Nath Haldar (Cong.), (*Khardagram—S.C.*); Bimal Paik (Cong.), (*Khajuri—S.C.*); Akshay Kumar Kolay (Cong.), (*Kolulpur*); Kashikanta Maitra (Cong.), (*Krishnagar East*); Sibdas Mukherjee (Cong.), (*Krishnagar West*); Santosh Kumar Mondal (Cong.), (*Kulpi—S.C.*); Arabinda Naskar (Cong.), (*Kultali—S.C.*); Ramdas (Banerjee (Cong.), (*Kulti*); Probodh Kumar Singha Roy (Cong.), (*Kumarganj*); Debabrata Chatterjee (Cong.), (*Kumargram*); Jatindra Mohan Roy (Cong.), (*Kushmandi—S.C.*).

Nirmal Krishna Sinha (C.P.I.), (*Labhpur*); Abdus Sattar (Cong.), (*Lalgola*); A. H. Besterwitch (R.S.P.), (*Madarihat—S.T.*); Manoranjan Halder (Cong.), (*Magrahat East —S.C.*); Sudhendu Mundle (Cong.), (*Magrahat West*); Nitai Pada Ghosh (Cong.), (*Mahammad Bazar*); Dr. Bhupen Bijali (Cong.), (*Maheshtola*); Ahindra Misra (Cong.), (*Mahisadal*); Bijoy Krishna Mohanta (Cong.), (*Mainaguri—S.C.*); Antoni Topno (Cong.), (*Mal—S.T.*); Siddhartha Shankar Ray (Cong.)(*Malda*); Sitaram Mahato (Cong.), (*Manbazar*); Jyotiramoy Mojundar (Cong.), (*Mangalkot*); Smt. Ila Mitra (C.P.I.), (*Manicktola*); Jokhilal Mandal (Cong.), (*Manikchak*); Birendra Nath Halder (Cong.), (*Mathurapur—S.C.*); Lalchand Fulmali (C.P.I.), (*Mayureswar—S.C.*); Madhusudan Roy (Cong.), (*Mekliganj—S.C.*); Naba Kumar Chatterjee (Cong.), (*Meman*); Biswanath (Mukherjee (Cong.), (*Midnapur*); Tuhin Kumar Samanta (Cong.), (*Monteswar*); Kanai Bhowmik (C.P.I.), (*Moyna*); Prasanta Kumar Sahoo (Cong.), (*Mugbena*); Dr. Motahar Hossain (Cong.), (*Murarai*); Mohammad Idris Ali (Cong.), (*Murshidabad*).

Radha Raman Saha (Cong.), (*Nabadwip*); Adya Charan Dutta (Cong.), (*Nabagram*); Paresh Chandra Goswami (Cong.), (*Nadanghat*); Prem Oraon (C.P.I.), (*Nagrakata—S.T.*); Tarapado Mukhapadya (Cong.), (*Naihati*); Nilkamal Sarkar (Cong.), (*Nakashipara—S.C.*); Golam Mahiuddin (Ind.), (*Nalhati*); Bhupal Chandra Panda (C.P.I.), (*Nandigram*); Dulal Saha (Cong.), *Nanur —S.C.*); Khan Nasiruddin (M.L.), (*Naoda*); Braja Kishore Maiti (Cong.), (*Narayangarh*); Saradindu Samanta (Cong.), (*Narghat*); Dasarathi Saren (Cong.), (*Nayagram —S.T.*); Suvendu Roy (Cong.), (*Naopara*); Sambhu Narayan Goswami (Cong.), (*Onda*); Sk. Anwar Ali (Cong.), (*Panchla*); Dr. Sailendra Chattopadhyay (Cong.), (*Pandua*); Tapan Chatterjee (Cong.), (*Panihati*); Smt. Geeta Mukhopadhyaya (C.P.I.), (*Panskura East*); Dr. Omar Ali (C.P.I.), (*Panskura West*); Sarat Das (Cong.), (*Para—S.C.*); Prafulla Maity (Cong.), (*Pataspur*); Satya Ranjan Bapuly (Cong.), (*Patharpratima*); Iswar Chandra Tirkey (Cong.), (*Phansidewa—S.T.*); Bijoy Das (Cong.), (*Pingla*); Bhawani Prasad Sinha Roy (Cong.), (*Polba*); Nurunnessa Sattar (Cong.), (*Purbasthali*); Mahadeb Mukherjee (Cong.), (*Pursurah*); Sanat Kumar Mukherjee (Cong.), (*Purulia*).

Durgadas Bauri (Cong.), (*Raghunathpur—S.C.*); Dr. Ramendra Nath Dutt (Cong.), (*Raiganj*); Sukumar Chattopadhyay (Cong.), (*Raina*); Manik Lal Basra (C.P.I.), (*Raipur*)—*S.T.*); Khagendra Nath Mondol (Cong.), (*Rajarhat—S.C.*); Mrigendra Narayan Roy (Cong.), (*Rajganj—S.C.*); Dwija Pada Saha (Cong.), (*Rajnagar—S.C.*); Hemanta Dutta (Cong.), (*Ramnagar*); Ananda Gopal Roy (Cong.), (*Rampurhat*); Nitaiprada Sarkar (C.P.I.), (*Ranaghat East—S.C.*); Naresh Chandra Chaki (Cong.), (*Ranaghat West*); Smt. Amala Saren (Cong.), (*Rani bandh—S.T.*); Haradhan Roy (C.P.I.-M.), (*Raniganj*); Lakshmikanta Basu (Cong.), (*Rashbehari Avenue*); Niren Chandra Sinha (Cong.), (*Ratua*); Prabhanjan Kumar Mandal (C.P.I.-M.), (*Sagar*); Nrisinha Kumar Mandal (Cong.), (*Sagardighi—S.C.*); Thakur Das Mahata (C.P.I.), (*Salboni*); Debendra Nath Sinha (Cong.), (*Sandeshkhali—S.T.*); Haran Chandra Hazra (C.P.I.-M.), (*Sankrail—S.C.*); Asamanja De (Cong.) (*Santipur*); Somendra Nath Mitra (Cong.), (*Sealdah*); Dr. Gopal Das Nag (C.P.I.), (*Serampore*); Mrigendra Mukherjee (Cong.), (*Shibpur*); Sisir Kumar Sen (Cong.), (*Shyampur*); Barid Baran Das (Cong.), (*Shampukur*); Arun Moitra (Cong.), (*Silguri*); Ajit Kujar Basu (C.P.I.), (*Singur*); Dr. Md. Fazle Haque (Cong.), (*Sitai*); Guru Pada Khan (Cong.), (*Sonamukhi—S.C.*); Kansari Halder (C..P.I.), (*Sonarpur—S.C.*); Sunit Chattoraj (Cong.), (*Suri*); Rabindra Nath Karan (C.P.I.), (*Sutahata—S.C.*); Shish Mohammad (R.S.P.), (*Suti*); A. B. A. Ghani Khan Chowdhury (Cong.), (*Suzapur*); Chandra Nath Misra (Cong.), (*Swarupnagar*).

P. B. Singhababu (Cong.), (*Taldangra*); Abdur Rauf Ansari (C.P.I.); (*Taltala*); Ajoy Kumar Mukherji (Coug.), (*Tamluk*); Patrash Hembrom (Cong.), (*Tapan—S.T.*); Balailal Sheth (Cong.), (*Tarakeswar*); Kartic Chandra Biswas (Cong.), (*Tehatta*); Krishna Kumar Shukla (Cong.), (*Titagarh*); Pankaj Kumar Banerjee (Cong.), (*Tollygunge*); Sisir Kumar Isore (Cong.), (*Tufanganj—S.C.*); Saroj Ranjan Karar (Cong.), (*Udainarainpur*); Gopal Mondal (Cong.), (*Ukhra—S.C.*); Raj Kumar Mondal (C.P.I.-M.), (*Uluberia North—S.C.*); Rabindra Ghosh (Ind.), (*Uluberia South*); Santasri Chattopadhyay (Cong.), (*Uttarpara*); Mohammad Shamsuzzoha (Cong.), (*Vidyasagar*); Bhabataran Chakravarty (Cong.), (*Vishnupur*); George Albert Wilsonde Roze (Nominated).

Note : G. L. Gorkha League ; W.P. Worker's Party.

INDUSTRIAL OPPORTUNITIES IN INDIA

IN the 1972 Directory we had published similar details of Grinding Wheels; Midget Electrodes; Graphite Criucibles and Silicon Carbide Crucibles; Graphite Electrodes and Anodes; Polyols; Silicones and Bi-axially Oriented Polystyrene film.

Following is a new list of items with attractive potentials as prepared by the Indian Investment Centre, Jeevan Vihar, Parliament Street, New Delhi 110001.

TYPEWRITERS

According to the assessment prepared by the Planning Commission some time back the indigenous demand for the various types of typewriters at the end of the Fourth Plan has been estimated to be of the order of 100,000 nos. per year.

Present Position : The total licensed capacity of 4 firms engaged in the production of typewriters is 86,400 nos. per annum. One of the firms, J. K. Business Machines Ltd., Calcutta, who are manufacturing portable typewriters have, however, gone out of production.

Production : The total production (in Nos.) of typewriters during 1969 was 28,373 and during 1970 it was 38,525.

Firms now in production of typewriters together with the names of their collaborators in brackets are : 1. Remington Rand of India Ltd., 3, Council House Street, Calcutta 700001 (Sperry Rand Corporation, USA); 2. Rayala Corporation Pvt. Ltd., 25A, Mount Road, Madras 600032 (Facit A. B., Sweden); 3. Godrej & Boyce Mfg. Co. Pvt.

Ltd., Lalbaug, Bombay 400012 Veb Optima, East Germany (since terminated).

Additional Capacity Approved : Having regard to the increased demand for typewriters during the coming years Government of India have issued letters of intent to the following firms for capacities indicated against each :

Name of the firm	Name of the item	Capacity per annum in Nos.
Remington Rand of India Ltd., Faridabad.	Portable typewriters	15,000
Mohan M. Shah, Andhra-Pradesh.	Electric typewriters	24,000
P. R. Ramachandran, Madras.	Portable typewriters	15,000
S. Sheshadri, Allahabad.*	Standard, Portable and Electric typewriters	15,600

* Foreign collaboration approved.

Exports : Typewriter is a fairly labour oriented item and therefore offers good scope for exports. A beginning has already been made in exports as can be seen from the following figures of exports (in Rs. '000) 1968–69 : 538 ; 1969–70 : 331 ; 1970–71 : 940.

Raw Materials : The main raw materials required for the manufacture of typewriters are various types of steel, in the form of strips, sheets and wires, seamless tubes and primary nickel. These would account for approximately 15 per cent of the cost of the finished product. Except for primary nickel and cold rolled steel strips indigenous capacity exists for other raw materials.

Scope : Taking into account the increase in demand for typewriters, potential for export , and also the gestation period for this industry, there seems to be still scope for setting up fresh capacity in this field.

Plant Size : It is considered that a unit with a capacity for the manufacture of 12,000 typewriters per annum would be an economic one. Such a unit would involve a total investment of Rs. 4 million, of which the capital goods would be of the order of Rs. 3 million comprising Rs. 2 million worth of imported capital goods and Rs. 1 million worth of capital goods from indigenous manufacturers.

Policy

According to the Guidelines on Foreign Collaboration and Investment, typewriters figure in list 1 (A) wherein foreign investment as well as technical collaboration is permissible. However, Government will give greater importance to proposals which are predominantly for the manufacture of portable typewriters and electric typewriters.

SEWING MACHINES

Sewing machine, as the name implies, is a mechanical device, hand or foot/electrically operated, used for sewing cloth, canvas and leather goods.

Present Position : There are at present five units in the organised sector engaged in the manufacture of sewing machines with a total annual installed capacity of 533,500 nos. The names of the firms and their respective installed capacity in brackets are : 1. Jay Engineering Works Ltd., 183A, P. A. Shah Road, Calcutta 700031. (300,000) ; 2. Sansar Machines Pvt. Ltd. (formerly known as Mahabir Export and Import Co. Pvt. Ltd.), Shahdara, Delhi 110032, (72,000) ; 3. Rita Mechanical Works, Ludhiana 141001. (33,500) ; 4. British Machinery Supplies Co., Faridabad. (28,000) ; 5. Jay Engineering Works Ltd., Sanatnagar. Hyderabad 500018. (100,000).

Production : The total production of sewing machines (in Nos.) in the organised sector during the year 1970 was 177,961 and during 1971 it was 337,632.

As sewing machine is a fairly labour-intensive product, a number of small scale units have taken up the production of this item. Most of the small scale units, however, have specialised in the manufacture of sewing machine components though some of them also assemble sewing machines. According to a rough estimate, there are more than 200 such units in the small scale sector. These are mainly located in Punjab, Uttar Pradesh and Delhi. The capacity of the units in the small scale sector manufacturing complete sewing machines is reckoned at 0·2 million nos. Thus the total installed capacity for sewing machines both in the organised and small scale sectors works out to approximately 0·73 million Nos.

Demand : The domestic sewing machine, being a common consumer product, has become almost an essential item in every household. With the increase in population and increase in per capita income, the demand for domestic sewing machines is steadily on the increase. Similarly, there has been an increase in the demand from the industrial sector as well. With the establishment of more and more units for ready-made garments and leatherwear, the estimated demand at the end of the Fourth Plan period is reckoned at 0·6 million nos. and this is expected to increase at an average rate of 15 per cent per annum during the Fifth Plan period. The demand for sewing machines by the end of the Fifth Five Year Plan is, therefore, expected to be of the order of 1·05 million nos. There would thus be a significant gap to the extent of about 0·3 million nos. There is, therefore, still scope for new units to come up even to meet the domestic requirements for sewing machines.

Economic Unit : Having regard to the need to have a proper research and development organisation within the unit in order to keep abreast of the developments in this field in the international market, it is considered that a unit should have a capacity for the manufacture of 50,000 sewing machines per annum. It is also suggested that such a unit should not only go in for the manufacture of domestic sewing machines but also plan substantial capacity for the manufacture of industrial sewing machines for which there is no capacity whatsoever at present. The investment involved for the establishment of such a unit would, to a large extent, depend upon the plans to organise ancillary units for the manufacture of some of the components. It would be advisable for the parent unit to confine itself to the manufacture of some of the more important components such as Bobbin Case Face Plate Link with Stud Needle Bar, Oscillating Rack Shaft, Shuttle and Carrier with Spring, Square Rollers, Thread Take-Up lever and offload the rest of the components for production to the ancillary units, mostly in the small scale sector. By doing so, the investment of the parent unit could be reduced considerably increasing its competitive position not only in the domestic market but also in the international market. The parent unit would however be solely responsible for providing new designs, testing facilities, technical advice, quality control etc., so that the responsibility for maintaining quality could rest fully with the parent unit.

Bulk of the machinery required for the manufacture of sewing machines is manufactured indigenously. Special purpose machinery used in the production of a number of components is also manufactured indigenously.

Raw Materials: The principal raw materials required for the manufacture of sewing machines are: pig iron, steels of various specifications, teak ply, painting and polishing materials. These are available indigenously, although at present there is some difficulty regarding the availability of special steels.

Exports: Indian sewing machines and parts are being exported to a number of countries i.e. Afghanistan, Nepal, Burma, Malaysia, Middle East, Singapore, U.K. and Canada. Recently there has been a good demand for certain sewing machine components from Japan also. There are still a number of countries e.g. France, Italy, Australia, Korea, Thailand and Brazil where markets can be explored for Indian sewing machines. The total exports of this item from India during the last three years were (in Rs. million): 1968-69: 4·58; 1969–70: 7·47; 1970–71: 2·58.

Government's Policy: Imports of sewing machines (domestic type) and sewing machine parts are banned. The present policy permits foreign collaboration for the manufacture of industrial sewing machines (such as lock stitch, chain stitch, zig zag stitch, button hole stitch, over-edge stitch, Hat back stitch, button sewing stitch and cross stitch) up to the speed range of 8,000 stitches per minute.

PRINTING MACHINERY

The printed word has assumed considerable importance as a means of mass communication with the increasing literacy of the people of the country on one hand and the increased requirement for printed material from the expanding industrial sector on the other. The demand for printed materials of all types such as newspapers, periodicals, books, illustrated literature, advertising material, attractive packaging covers etc. has increased calling for the establishment of additional facilities for printing. There are approximately 23,500 to 24,000 presses in India in operation. Approximately forty per cent of these presses employ personnel varying between 1 and 10 and thirty-six per cent employ between 11 and 25. The number of printing presses employing more than 1,000 persons is hardly 50.

Present Position: The following six units are at present manufacturing Printing Machinery of the simpler type in the organised sector:

1. Printers House (Pvt.) Ltd., 10 Scindia House, New Delhi 110001; 2. Printers Engg. Co., Metro Estate, S. G. Barve Marg (West), Kalina, Bombay 400029; 3. Gujarat Machinery Manufacturers Ltd., Station Road, Karamsad Distt. Kaira, Gujarat; 4. India Machinery Co. Ltd., Makada Road, Das Nagar, Howrah 711105; 5. Maya Engineering Works (Pvt.) Ltd., Russa Road, South Tollygunge, Calcutta; 6. Britannia Engineering Co. Ltd., Titagarh, 24-Parganas, West Bengal.

In addition to the above units in the private sector, Hindustan Machine Tools went into production in August this year when it commenced production of automatic letter press printing machines in collaboration with Nebiolo of Italy. The public sector unit has an installed capacity valued at approximately Rs. 35 million. Progressively the capacity of this unit will go up to Rs. 98 million by the middle of the Fifth Plan.

Production and Imports: The total installed capacity of the firms in the private sector for printing machinery is approximately Rs. 10 million. Production during 1970 and 1971 was Rs. 3·3 million and Rs. 3·5 million respectively. The under utilisation in the capacity is not due to lack of offtake but is mainly due to the limited range and types covered by the indigenous manufacturers.

Import Policy: As indigenous production is limited both in terms of range and type, most of the requirements for printing machinery are made through imports. The types of machines imported during 1969–70 and 1970–71 were as follows:

Type of Machinery	Value Rs. Million 1969–70	1970–71
Type casting & Setting machines ..	7·70	6·40
Offset Rotary printing machine presses	13·70	18·80
Proof presses	0·12	0·27
Rotary presses	4·31	10·12
Printing presses N.E.S. & parts ..	46·64	41·70
Total	72·47	77·29

Demand: According to the assessment made on the requirements of printing machinery by the Working Group Panel, it is estimated that by the end of 1973–74 demand for various types of printing machines would be of the order of Rs. 120 million. The details regarding the requirements of various types of equipment in broad categories are given below:

Type	Nos.	Approximate value (Rs. million)
Platen presses	1,200	1·4
Stop cylinder letter presses ..	500	30·0
Two revolution letter presses ..	200	15·0
Rotary letter press printing machines	10	6·0
Offset (sheet fed and web fed) machines	250	25·0
Proofing presses	1,000	2·5

To the above figures should be added the requirement of various spare parts and allied equipment, the demand for which would be anything between Rs. 40 and Rs. 50 million by 1973–74.

Raw Material: Most of the machines required for the production of printing machines are conventional medium to heavy machine tools such as centre, turret and capstan lathes, horizontal vertical and universal milling machines, surface grinders, universal grinders and gear hobbing machines. By and large these are available indigenously.

The basic raw materials required are pig Iron, M.S. Plates and Bars, Alloy Steels including forging quality steels, cold drawn M.S. Bars and certain non-ferrous metals.

Process of Manufacture: Facilities required for the manufacture of printing machinery are more or less similar to what would be available in a heavy machine shop. Manufacture of printing machinery could, therefore, be taken up by some of the existing manufacturers having heavy machinery as part of their diversification programme.

Scope for additional capacity : As there is wide gap between the demand and the approved capacity, there is still scope for further expansion in this field. Some of the specific items for which there is need to establish additional capacity are lino-type composing and casting machines, inter-type composing machines, rotary machines, offset printing machines, binding and box-making machines.

Exports: Like all machinery items, "printing machinery" is also a labour intensive item and offers good scope for exports. Even with the limited range of production that has been established, the industry has been in a position to export printing machines to a value of Rs. 0·3 million annually.

Government's Policy : Printing machinery is a non-scheduled industry and does not therefore require a licence under the Industries Development and Regulation Act, 1951. However, being a CORE industry, schemes relating to the manufacture of printing machinery are required to be approved by the Government. Foreign technical collaboration is permitted for the manufacture of printing machinery. It is included in list 1 (B) of the guidelines on Foreign Investment and Collaboration.

HIGH TENSION INSULATORS

The demand for high tension insulators is increasing at a very rapid rate because of the country's intensified development programmes for power generation and transmission and for communication facilities such as the expansion of telephone and telegraph networks. It is estimated that the demand for high tension insulators would rise to about 25,000 tonnes by 1973–74. In order to meet this growing demand it has been proposed to create a capacity of 31,250 tonnes by 1973–74.

There is considerable demand for disc insulators of high electro-mechanical strength of above 25,000 lbs. transformer bushings, post insulators above 66 KV and solid core insulators for railway tracks. There is very little production of these items at present in India.

Status of the Industry : At present there are 7 units in production, with a total annual installed capacity of 16,620 tonnes against a licensed capacity of 21,560 tonnes. They are :

1. Allied Ceramics Pvt. Ltd., 91, Dharamtala St., Calcutta ; 2. Bengal Potteries Ltd., 45, Tangra Road, Calcutta ; 3. High Tension Insulator Factory, P.O. Namkum, Ranchi, Bihar ; 4. Jaya Shree Textiles and Industries Ltd., Rishra, West Bengal ; 5. Mysore Porcelains Ltd., Malleswaram, Bangalore 560012 ; 6. Seshasayee Industries Ltd., Vadalur, Tamil Nadu ; 7. W. S. Insulators of India Ltd., Dhun Bldg., Mount Road, Madras 600002.

The production in tonnes of H.T. insulators during last three years was as follows : 1968 : 13,280 ; 1969 : 15,435 ; 1970 : 17,450.

Imports: India is importing major requirements of special type insulators such as solid core insulators, bushings, etc. The import, in this category is of the order of Rs. 3·5 million a year.

Raw Material : There are extensive deposits of good quality China clay found in all parts of India. Some of the deposits of china clay found in the States of Bihar, Andhra Pradesh and Kerala are of superior grade.

The following raw materials, namely quartz, feldspar, limestone and components like malleable castings and line hardware are also available in the country.

Ball clay is still required to be imported for manufacturing special types of High Tension Insulators although there are deposits of good plastic fine clay in Gujarat and Bihar which are now being exploited for commercial production.

Plant Size : A unit with a starting capacity of 2,000 tonnes per year could operate economically, for which the total investment is estimated at Rs. 3·5 million to Rs. 4·0 million on plant and machinery. Of this, foreign exchange for import of plant and equipment needed would be about Rs. 1·8 million to Rs. 2·0 million. To this the cost of land, building etc. amounting to Rs. 1·0 million should be added.

The raw material requirement in tonnes of the plant will be : China clay : 600 ; Ball clay : 750 ; Quartz : 600 ; Feldspar : 600 ; Stains and colours such as iron oxide, chrome oxide etc. : 15.

Components like malleable castings and line hardware can be bought from outside.

Government's Policy: As from the figures given above it will be seen that there is scope for setting further capacity in this field. Since the cost of imported equipments will exceed the exemption limit provided under the revised industrial licensing policy, it will be necessary to obtain an industrial licence under Industries (Development and Regulation) Act, 1951 for establishing a unit.

This industry is included in list 1 (A) of the Guidelines for Foreign Collaborations according to which both financial and technical collaboration will be permitted by the Government of India.

LEATHER FOOTWEAR

Leather industry has played a vital role in our national economy and export of leather items has been an important source of foreign exchange earning to the country. The pattern of leather exports has, however, undergone a change during the past decade with the rising contribution of finished and semi-finished leather in place of raw hides and skins. Among the various leather products, footwear has gained increasing importance in recent years in export markets.

The Demand and Existing Position : The demand for leather footwear during the Fourth Plan period has been estimated at 200 million pairs against which the present production is of the order of 156 million pairs.

The following units are at present engaged in the manufacture of leather footwear in the organised sector :

1. Bata Shoe Co. (Pvt.) Ltd., Batanagar, 24-Parganas, West Bengal ; 2. Bata Shoe Co. (Pvt.) Ltd., Dighaghat, Bihar ; 3. Bombay Footwear Pvt. Ltd., Deonar, P.O. Chembur, Bombay 400077 ; 4. Carona Sahu Co. Ltd., 143 M. Gandhi Road, Bombay 400001 ; 5. Chrome Leather Co. Pvt. Ltd., P.O. Chromepet, Madras 600044 ; 6. National Tannery Co. Ltd., 1 Middleton St., Calcutta 700016 ; 7. Prime Products Ltd., P.B. No. 80, Kanpur 208001 ; 8. Tannery & Footwear Corpn. of India Ltd., $^{13}/_{400}$, Civil Lines, Hazari Bungalow, Kanpur 208001.

The contribution of these eight large scale units in this field is approximately 15·9 million pairs, accounting for 10 per cent of total output while the bulk of production is from the small scale and cottage units.

In addition to the domestic demand, there is also potential market for leather footwear in foreign countries. Export of leather footwear as compared to other items made of leather during the past few years is indicated below:

(Value in Rs. Million)

Description	1968–69	1969–70	1970–71	Percentage increase or decrease in 1970–71 over 1969–70 exports
Leather & Leather Manufactures	800	980	800	18% decrease
Leather footwear	70	70	90	30% increase

Exports of leather footwear has thus increased appreciably although the export of other leather products as a whole has suffered a setback in 1970–71.

Although India has the largest cattle population in the world with 240 million heads of cattle, the country's share in the total world trade in footwear amounting to roughly Rs. 5,000 million constitutes barely 2 per cent. There is, therefore, considerable scope for boosting up our exports in this field.

The principal tanning centres in India are Madras and Calcutta while Agra is an important centre for the manufacture of shoes. Almost the entire production export of EI leather and 60 per cent of the wet blue production and export is from Madras. There is, however, good scope for the establishment of leather and leather footwear units in many other States in the country where equal facilities for raw material supply and accessibility to ports are available.

Raw Material: The important raw materials required for the manufacture of leather footwear are chrome tanned upper leather, sole leather, rubber soles boots and shoes grindery, adhesives, threads etc., which are available indigenously. The following units are at present engaged in the manufacture of chrome tanned uppers from hides and calf skins: 1. Bata Shoe Co. (Pvt.) Ltd., Batanagar, 24-Parganas, West Bengal; 2. Prime Products Ltd., P.B. No. 80, Kanpur 208001; 3. Chrome Leather Co. Pvt. Ltd., Chrompet, Madras 600044; 4. Gordon, Woodroffe Leather Mfg. Co. Pvt. Ltd., Pallavaram, Madras 600043; 5. National Tannnery Co. Ltd., 1 Middleton St., Calcutta 700016; 6. Sreenivas & Co., 10 Sydenham Road, Periamet, Madras 600003; 7. Tannery & Footwear Corpn. of India Ltd., 13/400 Civil Lines, Hazari Bungalow, Kanpur 208001; 8. Western India Tanneries Ltd., Dharavi, Bombay 400017.

In addition there are hundreds of small scale units in various States producing chrome upper leather and other raw materials required in the manufacture of leather footwear.

Investment Opportunities: Since the gap between the demand at the end of Fourth Plan and the present production is about 40 million pairs, there is vast scope for the setting up of a number of medium scale as well as small scale mechanised units within the country. In recognising the higher employment potential per unit of investment in small scale sector, Government of India has reserved the development of this industry in small scale sector except for expansion of the existing units and new units for exports. The manufacture of leather footwear requires an industrial licence under Industries (Development & Regulation) Act, 1951 if the investment on plant and machinery exceeds Rs. 750,000. No foreign collaboration (Financial and/or Technical) is considered necessary for this industry. However, for highly export-oriented projects, envisaging export of 75 to 100 per cent of production, foreign collaboration may be considered on merits.

Plant Size: The economic capacity for a mechanised unit is of the order of 100,000 pairs per annum. The investment on plant and machinery would be about Rs. 450,000 out of which machinery worth Rs. 300,000 is to be in a position to provide jobs to about 60 persons.

BABY FOOD AND WEANING FOOD

Baby Food: The estimated demand for infant milk food by 1973–74 is of the order of 45,000 tonnes against which the present licensed and installed capacity is as follows:

	Licensed capacity (Tonnes)	Installed capacity (Tonnes)
Gujarat	13,250	13,250
Uttar Pradesh	6,500	6,500
Punjab	3,728	1,005
TOTAL	23,478	20,755

In addition, Government of India has approved a capacity of 11,409 tonnes of infant milk food in the following pattern:

Indian Dairy Entrepreneurs Ltd., Jaipur — 2,500 tonnes; Geoffrey Manners and Co. Pvt. Ltd., Magnet House, Ballard Estate, Bombay 400001 — 2,500 tonnes; Infant Foods Pvt. Ltd., New Delhi — 2,500 tonnes; Haryana Dairy Development Corporation, Haryana—1,500 tonnes; Lt. Col. Murais, Landons Road, Madras 600010 — 2,409 tonnes; Total 11,409 tonnes.

There is, therefore, good scope for allowing additional capacity for the manufacture of infant milk food.

The following firms are at present engaged in the manufacture of infant milk baby food in India:

1. Food Specialities (P) Ltd., G. T. Road, Moga 142001, Punjab; 2. Glaxo Laboratories (I) Ltd., Dr. A. Besant Road, Worli, Bombay 400018; 3. Hindustan Levers Ltd., Etah, U.P.; 4. Hindustan Milk Food Manufacturers Ltd., Patiala Road, Nabha, Punjab; 5. Kaira Dist. Co-operative Milk Producers' Union Ltd., Anand 388001, Gujarat; 6. Pradeshik Co-operative Dairy Federation Ltd., 29, Park Road, Lucknow 226001, U.P.

Production of infant milk food in the organised sector during the last few years was as follows:

Year	Installed Capacity (Tonnes)	Production (Tonnes)
1969	16,933	15,588
1970	19,233	15,677
1971	20,983	16,591

Weaning Food: The demand for weaning food is estimated to be of the order of 25,000 tonnes by 1973–74 against which the following capacity has been licensed and installed :

State	Licensed capacity (Tonnes)	Installed capacity (Tonnes)
Maharashtra	360	360
Gujarat	6,000	—
Uttar Pradesh	3,000	—
Punjab	450	450
TOTAL	9,810	810

In addition, the scheme of Kaira Dist. Co-operative Milk Producers' Union Ltd., Anand has been approved for the manufacture of 6,000 tonnes of weaning food based on soya flour apart from the scheme of Shri Pratap Singh B. Rana, Goa for the manufacture of weaning food with a capacity of 1,500 tonnes per annum.

The following firms are at present engaged in the manufacture of weaning food in the organised sector : 1. Food Specialities Ltd., Moga 142001, Punjab ; 2. Glaxo Laboratories (I) Ltd., Dr. Annie Besant Road, Worli, Bombay 400018.

Production of weaning food during the last three years was as follows :

Year	Installed Capacity (Tonnes)	Production (Tonnes)
1969	620	389
1970	620	679
1971	810	1,005

Raw Material: The major raw material required in the manufacture of infant milk food and weaning food is fluid milk. As sufficient quantities of milk might not be available in the vicinity of the factory, it may be necessary to meet a portion of the requirements by use of skim milk powder at least for the initial years.

Machinery : The following firms are engaged in the manufacture of dairy machinery : 1. A. P. V. Engg. Co. Pvt. Ltd., 2 Jessore Road, Dum Dum, Calcutta ; 2. Larsen & Toubro Ltd., L and T House, Dougal Road, Ballard Estate, Bombay 400001 ; 3. Vulcan Laval Ltd., Indian Mercantile Chamber, Mustafa Bldg., Nicol Road, Bombay 400001.

Plant Size : A project with a capacity of 10 tonnes per day of baby food and weaning food would involve a total capital outlay of approximately Rs. 10 million on plant and machinery out of which equipment to the value of Rs. 1·5 — Rs. 2·0 million may have to be imported.

The raw material requirements for a plant with the above capacity would be on the following pattern : Fluid Milk : 50,000 litres — 60,000 litres per day ; Skim Milk Powder : 700 tonnes — 800 tonnes per annum ; Cotton Seed Flour : 100 tonnes — 150 tonnes per annum ; Soya Flour : 100 tonnes — 150 tonnes per annum.

Government's Policy: Creation of further capacity in this field is likely to be encouraged, provided raw material supply is assured to the satisfaction the Government. Government, would prefer the entrepreneurs to develop production of milk through cattle improvement activities and not to draw milk from the milk shed areas earmarked by the State Governments for their programmes. No foreign collaboration is required in the manufacture of infant milk food as suitable knowhow has been developed indigenously.

This is one of the ideal industry for development in the co-operative sector.

STARCH

Starch may be regarded as a chain polyglucosidic macromolecule in its structure. Besides being the major constituent of the average diet, it has innumerable industrial applications in various fields such as manufacture of textiles, paper, adhesives, paints, detergents etc.

In India, starch is made from either tapioca or maize. The processes pertaining to these two differ slightly.

Process of Manufacture: (*a*) Starch from Maize : Corn is cleaned and softened in warm water containing sulphur dioxide. The kernels are then degerminated and the separated germ is floated away because of its oil content. Subsequently the hull and fibre particles are removed and the starch gluten suspension flows into centrifugal separators to separate starch from gluten. Thus the important by-products in this process are gluten and maize oil.

(*b*) Starch from Tapioca : After being pulped and washed, the starch milk from the roots and tubers of the plant is expelled by squeezing of pulp. Then the pulp is treated with sulphur dioxide and sent through a continuous horizontal centrifuge. The mixture is then separated and sieved and the milk is again passed through and sent for separation.

Demand : With the existing and potential requirements for starch in textile, paper and other industries, there is good scope for this item in India. Starch is also the main raw material needed in the manufacture of lactose which is currently imported to the value of about Rs. 4·5 million per annum. With the increased indigenous availability of starch for the manufacture of lactose and other glucose products, valuable foreign exchange could be saved by reducing import of these products. To meet the divergent requirements for this item, Government has estimated a production target of 500,000 tonnes by 1973–74.

Status of the Industry : Against this target, the licensed and the installed capacity for this product is as follows :

State	Licensed Capacity	Installed Capacity
Gujarat	114,000	114,000
Tamil Nadu	6,000	6,000
Andhra Pradesh	6,000	6,000
Punjab	6,000	6,000
Haryana	12,600	12,600
Kerala	42,000	20,000
Madhya Pradesh	4,000	4,000
TOTAL	190,600	168,600

Apart from this, letters of intent have been issued to three parties with a total capacity of 30,450 tonnes per annum.

Most of the units engaged in this field (see index for Starch manufacturers) are manufacturing starch primarily for textile industries. Thus manufacture of starch for specialised applications in paper and other industries is likely to be particularly encouraged by the Government.

Raw Material : The primary raw materials required are maize/tapioca and sulphur. Tapioca is mainly grown in the State of Kerala, whereas the cultivation of maize is spread throughout several States like Andhra Pradesh, Bihar, Maharashtra, Mysore, Orissa, Tamil Nadu, Uttar Pradesh, Assam and Gujarat.

The total production of maize during 1971–72 was 5·02 million tonnes and a target of 8·0 million tonnes for production of maize by 1973–74 is envisaged. Similarly the total production of Tapioca during 1971–72 was 5·94 million tonnes.

All the other raw materials except sulphur, are available in the country.

Plant Size: A plant with capacity of 9,000 tonnes/annum (30 tonnes per day) is considered to be an economic unit. This will involve a total capital outlay of about Rs. 5·5 million including machinery of the value of Rs. 3·0 to 3·5 million. Of this, foreign exchange component for plant and equipment would be of the order of about Rs. 0·4 to 0·5 million. As most of the machinery is being manufactured indigenously, only those specialised items like dewatering equipment need to be imported.

The major raw material requirements of a plant with the above capacity is : Maize : 15,000 tonnes per annum ; Sulphur : 60–70 tonnes per annum.

Government's Policy: This item has been included under the category of "maize products" in the list of 123 items issued by the Government of India, where there is likely to be sustained demand and scope for investment, Government is, therefore, likely to encourage setting up of further units in this field.

The total investment for a 30 tonnes/day starch plant being below Rs. 10 million and the foreign exchange for import of capital equipment and raw material being within the permissible limits of relaxations with regard to industrial licensing, as announced by the Government of India, the establishment of such a unit will not ordinarily require an industrial licence, under the Industries (Development & Regulation), Act, 1951.

INDIAN JOINT VENTURES ABROAD

Policy : An effort to set up Indian joint ventures abroad began in the sixties. This was done to increase India's exports and to foster economic co-operation between developing countries. Earlier India's equity participation was limited to export of machinery, equipment and technical know-how. In 1972 rules provided for the inclusion of expenses of structurals, steel and construction materials as well, if the equity value fell short of the necessary capital required to keep the Indian holding at a higher level. The rules allow minority participation by Indian companies.

Range : By now 150 Indian joint ventures have been approved to be set up in 35 countries of Asia, Africa, Latin America and even in Great Britain, Germany and Canada. The largest number (22) is in Malaysia — of which four were finalised in January 1973. Thirty-seven units have already gone into production, 61 are under implementation and 50 proposals have been abandoned.

Engineering industry constitute the bulk of such ventures, and textile machinery, sugar mill machinery, plant machinery, cement plants, soap, vanaspati, paper, automobile and cycle parts, garments and glass are manufactured by them. There are also steel-rolling mills, jute mills, and hotels. An asbestos cement and a hardboard unit has been set up in Canada and India is collaborating in setting up factories for oil engines, rice hulling machines and hose clips in West Germany.

Achievement : Joint ventures abroad have earned more than Rs. 79·6 million in foreign exchange for India. Rs. 68·3 million have been earned by the export of machinery and raw materials. The returns on dividends earned, know-how and technical fees, however, is delayed. The Rs. 11·4 million earned has been reported by only 10 projects.

Prospects : India is at an advantage compared to the developed countries in offering to participate in joint ventures because of lower costs and suitability of technology as regards developing countries where such ventures are executed.

Besides, the usual advantages that accrue from creating a market for Indian capital goods and the recurrent exports, the joint ventures can also skirt quota and tariff restriction imposed by countries like the members of the European Economic Community which show a preference for Africa and other developing regions.

Investment : The total Indian capital investment abroad is not expected to exceed Rs. 180 million while foreign investment in India is well over Rs. 15,000 million.

JOINT INDUSTRIAL VENTURES APPROVED TO BE SET UP ABROAD WITH INDIAN COLLABORATION UPTO 30-11-1972

Indian Collaborator	Field of Collaboration	Country
Ahmed Oomerbhoy Ltd., Bombay	Vanaspati plant	Saudi Arabia
*Ajit Industries, Bombay	Enamelled copper wire & electrical accessories	Malaysia
Alokudyog Overseas Ltd., New Delhi	ICC Plant	Afghanistan
* Anil Hardboards Ltd., Bombay	Hardboard	Canada
Anil Hardboards Ltd., Bombay	Hardboard	U.S.A.
Automobile Products of India Ltd., Bombay	Scooter assembly	Kenya
Automobile Products of India Ltd., Bombay	Scooter assembly	Nigeria
* Ayurved Sevashram, Udaipur	Canning Industry	Mauritius
B.A. Chandran, Madras	Non-ferrous forging	West Germany
Berar Oil Industries, Bombay	Palm Oil Fractionating plant	Malaysia
* Bhor Industries (P) Ltd., Bombay	PVC Leather cloth	Sri Lanka

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* Production Started.

JOINT INDUSTRIAL VENTURES APPROVED TO BE SET ABROAD WITH INDIAN COLLABORATION UPTO 30-11-1972 — (*Contd.*)

Indian Collaborator	Field of Collaboration	Country
* Birla Bros. Pvt. Ltd., Calcutta	Textiles	Ethiopia
* Birla Bros., Calcutta	Asbestos Cement Products	United Kingdom
* Birla Bros., Calcutta	Cotton Textile	Malaysia
* Birla Bros., Calcutta	Engg. goods	Nigeria
Birla Bros., Calcutta	Textiles	Nigeria
Birla Bros., Calcutta	Solvent Extraction	Nigeria
* Birla Bros., Calcutta	Synthetic fibre Spg. unit	Thailand
* Birla Bros., Calcutta	Jute Mill	Uganda
* Bombay Soap Factory, Bombay	Soap Factory	Ethiopia
Century Flour Mills, Madras	Biscuits	Malaysia
Chemical Construction, New Delhi	Hydrogenation of palm oil	Malaysia
Chemical Construction Co. Ltd., New Delhi	Fatty acids and glycerine	Malaysia
Cutfast Abrasives Ltd., Madras	Coated abrasives	Malaysia
Darbar Co. (P) Ptd., Delhi	Sewing thread balls	Afghanistan
Duncan Bros. & Co. Ltd., Calcutta	Woollen Textile Mill	Ethiopia
Electronics Ltd., New Delhi	Room coolers, air conditioners	Sri Lanka
Escorts International, Faridabad	Small Wheel type agricultural tractors	Ghana
Escorts Ltd., Faridabad	Shock absorbers	Malaysia
Expo Machinery Ltd., Delhi	Refrigerators, air-conditioners etc.	Senegal
Ghai Lamba Catering Consultants Pvt. Ltd., New Delhi	Restaurant	U.S.A.
* Godrej & Boyce Mfg. Co. (P) Ltd., Bombay	Steel furniture	Malaysia
Graphite India Ltd., Calcutta	Carbon & Graphite products	Australia
* Gupta Machine Tools (P) Ltd., Calcutta	Precision tool & gauge Mfg. unit	Malaysia
* H. L. Malhotra & Sons. (P) Ltd., Calcutta	Light Engg. Complex	Kenya
* H. L. Malhotra & Sons (P) Ltd., Calcutta	Razor-blade factory	Nigeria
Hindustan Safety Glass Works (P) Ltd., Calcutta	Safety glass	Malaysia
Hooseini Metal Rolling Mills (P) Ltd., Bombay	Aluminium Sheet rolling mill	Ethiopia
* Hindustan Tool Industries, Bombay	Builders hardware	Yemen Arab Republic
Hydraulics Pneumatic (India) (P) Ltd., Delhi	Air compressors, hydraulic Jack hoists etc.	Malaysia
India Pistons Ltd., Madras	Pistons	Malaysia
* Indian Cork Mills, Bombay	Cork Factory	Kenya
Indian Cork Mills, Bombay	Cork Factory	Morocco
* Indian Hume Pipe Co. Ltd., Bombay	Pipes	Libya
Indian Tool Manufacturers Ltd., Bombay	Twist Drills	Columbia
Indo-American Electricals, Calcutta	Magnet wires	Canada
Industrial Construction Co., Calcutta	Cycle tyres & tubes	Nigeria
Jay Engineering Works Ltd., Calcutta	Electric Fans & sewing machines	Malaysia
Jay Engineering Works Ltd., Calcutta	Electric fans & sewing machines	Singapore
* Jay Engineering Works Ltd., Calcutta	Sewing Machines	Sri Lanka
Jg. Glass Industries, Pune	Glass bottles	Malaysia
K.C.P. Ltd., Madras	Cement Plant	Mauritius
* K. T. Dongre & Co. (P) Ltd., Bombay	Gripe Water	Kenya
* Kirloskar Electric Co., Bangalore	Electric motor, pump, diesel engines	Malaysia
Kirloskar Electric Co., Bangalore	Electric motor & pump	Sri Lanka
Kirloskar Oil Engines (P) Ltd., Pune	Diesel Engines	Philippines
* Kirloskar Oil Engines (P) Ltd., Pune	Rice Milling machines & oil engines etc.	West Germany
Krishna Mining Co., Gudur	Mica Mining	Sri Lanka
* L. G. Balakrishnan & Bros., Coimbatore	Time & Automobile chains	Malaysia
Lakshmi Textile Exporters (P) Ltd., Coimbatore	Yarn from cotton, staple fibre and other man-made fibres	Malaysia
M. S. Alloy Electrodes, Bombay	Welding electrodes	Singapore
* Mafatlal Gagalbhai & Co. (P) Ltd., Bombay	Tufted Carpet Yarn	Ireland
Mahindra & Mahindra, Bombay	Spare-parts, automotive components	Iran
Metro Wood Engg. Works (P) Ltd., Ahmedabad	Bobbins, shuttles & steel reels	Sri Lanka
Mukund Iron & Steel Works Ltd., Bombay	Steel foundry	Malaysia
* Murugappa & Sons, Madras	Cycle & Industrial chains	Malaysia
Mysore Govt. Soap Factory, Bangalore	Sandal wood soap	Malaysia
* N. Krishnan, Bangalore	Hose clips	West Germany
Orient Paper Mills Ltd., New Delhi	Paper & Pulp projects	Kenya
Orkay Group of Industries, Bombay	Textiles	Mauritius
* Parrys Confectionary Ltd., Madras	Confectionary	Malaysia
Phaltan Sugar Works, Bombay	Sugar Factory	Malaysia

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* Production Started.

JOINT INDUSTRIAL VENTURES APPROVED TO BE SET UP ABROAD WITH INDIAN COLLABORATION UPTO 30-11-1972 — (*Concluded*)

Indian Collaborator	Field of Collaboration	Country
* R. M. Goculdas, Bombay	Textiles	Kenya
Raymond Woollen Mills Ltd., Bombay	Engineers Steel files	Indonesia
* Raymond Woollen Mills Ltd., Bombay	Woollen Textile	Kenya
Royal Fancy Sweetmeat Saloon, Bombay	Sweetmeats	United Kingdom
Sacha Exporters & Investors, Bombay	Steel Mill	Thailand
Sajjan Kumar, Lucknow	Steel re-rolling mill	Nigeria
Sahney Steel & Press Works (P). Ltd., Bombay	Auto-electrical parts	Sri Lanka
Salvi Super, Lucknow	Cast Iron	Kenya
Sarabhai International, Ahmedabad	Pharmaceutical Products	Kenya
Semi Conductors Ltd., Bombay	Radio Assembly	Togo
* Sidharth Jasubhai, Ahmedabad	Mosaic Tiles & Rolling Shutters	Mauritius
Sir G. C. Narang (Cosmetics) Industries, Delhi	Cosmetics & Pharmaceuticals	Malaysia
South India Automotive Corpn., Madras	Modern Repair/Service Station	Iran
Southern Industrial Corpn., Madras	Automotive & allied remote control & speedometer cables	Malaysia
Subhash Silk Mills, Bombay	Textiles	Mauritius
* Swastik Glass Works, Chandrapur	Glass factory	Sri Lanka
Swastik Rubber Products Ltd., Bombay	Rubber Industry	Mauritius
T. Maneklal Mfg. Co. Ltd., Bombay	Textiles	Canada
T. Maneklal Mfg. Co. (P) Ltd., Bombay	Textiles	Nigeria
Tata Oil Mills Ltd., Bombay	Vanaspati, Soap etc.	Malaysia
* Teksons (P) Ltd., Bombay	Automobile accessories	Singapore
Themis Pharmaceutical, Bombay	Pharmaceutical	Sri Lanka
Traub (India) Ltd., Pune	Single Spindle automatic Lathe Assembly	Japan
* Turner Hoare & Co. Ltd., Bombay	Room air-conditioners	Nigeria
United Agencies (P) Ltd., Bombay	Hotel Project	Mauritius
United Agencies (P) Ltd., Bombay	Transistor Assembly	Saudi Arabia
Vinod Sanghi, Bombay	Tube valve manufacturing unit	Malaysia
Walchandnagar Industries Ltd., Pune	Sugar	Uganda
Wallace Flour Mills Ltd., Bombay	Roller Flour Mill	Fiji
Zaverchand Gaekwad (P) Ltd., Vadodara	Metallic flexible tubes & hoses	Malaysia
Zenith Steel Pipes Ltd., Bombay	Steel pipes & tubes	Indonesia

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* Production Started.

CORPORATE GIANTS IN INDIA: 1971-72

Rank	Name of Company	Total assets (Rs. Million)
1.	Hindustan Steel Ltd.	10,263 G
2.	Food Corporation of India	7,486 G
3.	Hindustan Aeronautics Ltd.	3,148 G
4.	Indian Oil Corpn. Ltd.	3,131 G
5.	Oil and Natural Gas Commission	2,824@ G
6.	Fertilizer Corpn. of India Ltd.	2,751@ G
7.	Heavy Engineering Corpn. Ltd. (*b*)	2,422@ G
8.	Bharat Heavy Electrical Ltd.	2,333@ G
9.	National Coal Dev. Corpn. Ltd.	2,226@ G
10.	Tata Iron & Steel Co. Ltd.	2,015
11.	Shipping Corpn. of India Ltd.	1,932 G
12.	Heavy Electricals (India) Ltd.	1,814 G
13.	Air-India	1,601 G
14.	Neyveli Lignite Corpn. Ltd.	1,549@ G
15.	Tata Engineering and Locomotive Co. Ltd.	1,308
16.	Indian Iron & Steel Co. Ltd.	1,205†
17.	Associated Cement Cos. Ltd.	1,087
18.	Fertilizers and Chemicals Travancore Ltd.	1,027@ G
19.	Delhi Cloth & General Mills Co. Ltd.	929
20.	Indian Drugs & Pharmaceuticals Ltd.	916 G
21.	Indian Airlines	890 G
22.	Scindia Steam Navigation Co. Ltd.	842
23.	Oil India Ltd.	803 J
24.	Indian Aluminium Co. Ltd.	747
25.	Hindustan Motors Ltd.	728
26.	Minerals and Metals Trading Corpn. of India Ltd.	705 G
27.	Madras Fertilisers Ltd.	682 G
28.	Gujarat State Fertiliser Co. Ltd.	681
29.	Indian Explosives Ltd.	642
30.	Hindustan Aluminium Corpn. Ltd.	627
31.	National Minerals Dev. Corpn. Ltd.	599@ G
32.	State Trading Corpn. of India Ltd.	595 G
33.	Indian Tobacco Co. Ltd.	584
34.	Bharat Electronics Ltd.	570 G
35.	Calcutta Electric Supply Corpn. Ltd.	541
36.	Calico Mills Ltd.	539
37.	NOCIL (National Organic Chemical Industries Ltd.)	525
38.	Dunlop India Ltd.	525

Rank	Name of Company	Total assets (Rs. Million)	
39.	Bharat Earth Movers Ltd.	521	G
40.	Hindustan Machine Tool	511@	G
41.	Voltas Ltd.	474	
42.	Hindustan Lever Ltd.	445	
43.	Gwalior Rayon Silk Mfg. (Wvg.) Co. Ltd.	423	
44.	Mining and Allied Machinery	420	G
45.	Coromandel Fertilisers Ltd.	418	
46.	Union Carbide India Ltd.	410	
47.	Century Spg. & Mfg. Co. Ltd.	407	
48.	Guest Keen Williams Ltd.	407	
49.	Great Eastern Shipping Co. Ltd.	402	
50.	Indian Telephone Inds. Ltd.	401	G
51.	J. K. Synthetics Ltd.	391	
52.	Tata Power Co. Ltd.	390	
53.	Madras Refineries Ltd.	384@	G
54.	Hindustan Shipyard Ltd.	374	G
55.	Binny Ltd.	360	
56.	Philips India Ltd.	348	
57.	Singareni Collieries	339@	G
58.	Cochin Refineries Ltd.	337@	G
59.	Orient Paper Mills Ltd.	330	
60.	E.I.D. Parry Ltd.	328	
61.	Larsen and Toubro Ltd.	324	
62.	Escorts Ltd.	310	
63.	Brooke Bond India Pvt. Ltd.	299	
64.	Ballarpur Paper Straw Board Mills Ltd.	291	
65.	Ahmedabad Electricity Co. Ltd.	285	
66.	Mazagaon Dock Ltd.	284	G
67.	Mahindra and Mahindra Ltd.	283	
68.	Tata Oil Mills Co. Ltd.	279	
69.	Indian Steamship Co. Ltd.	271	
70.	Premier Automobiles Ltd.	287	
71.	General Electrical Industries	267	
72.	ESSO Standard Refining Co. of India Ltd.	267	
73.	Ashok Leyland Ltd.	265	
74.	Bata Shoe Co. Pvt. Ltd.	264	
75.	Metal Box Co. of India Ltd.	259	
76.	South India Shipping Corpn. Ltd.	258	
77.	Kesoram Inds. Cotton Mills Ltd.	256	
78.	Bombay Dyeing & Mfg. Co. Ltd.	256	
79.	India Cement Ltd.	256	
80.	Indian Tube Co. Ltd.	256	
81.	NGEF	250	G
82.	Rallis India Ltd.	249	
83.	Kamani Engineering Corpn. Ltd.	249	
84.	Madura Mills Co. Ltd.	247	
85.	Birla Jute Mfg. Co. Ltd.	246	
86.	Burmah Shell Refineries Ltd.	240	
87.	Jiyajeerao Cotton Mills Ltd.	240	
88.	Siemens India Ltd.	238	
89.	Indian Copper Corpn. Ltd.	237†	
90.	Hindustan Construction Co. Ltd.	235	
91.	Standard Mills Co. Ltd.	233	
92.	Textile Machinery Corpn. Ltd.	233	
93.	Kirloskar Oil Engines Ltd.	231	
94.	Bombay Suburban Electric Supply Ltd.	230	
95.	Mafatlal Fine Spg. & Mfg. Co. Ltd.	227	
96.	Bharat Heavy Plate & Vessels Ltd.	220	G
97.	Glaxo Laboratories (India) Ltd.	218	
98.	Godrej & Boyce Mfg. Co. Pvt. Ltd.	217	
99.	Andhra Valley Power Supply Co. Ltd.	216	
100.	Garden Reach Workshops Ltd.	215	G
101.	Crompton Greaves Ltd.	209	

MINI CORPORATE GIANTS IN INDIA (PUBLIC AND PRIVATE SECTORS) : 1971-72

Rank	Name of Company	Total assets (Rs. Million)	
102.	South India Viscose Ltd.	205	
103.	Goodyear India Ltd.	205	
104.	Rohtas Industries Ltd.	203	
105.	Hindustan Steel Works Const. Ltd.	202	G
106.	Atul Products Ltd.	201	
107.	Modipon Ltd.	201	
108.	National Rayon Corpn. Ltd.	197	
109.	Swadeshi Cotton Mills Co. Ltd.	168	
110.	ACC-Vickers-Babcock Ltd.	196	
111.	Alkali & Chemical Corpn. of India Ltd.	191	
112.	Nirlon Synthetic Fibres & Chemicals	190	
113.	International Tractors Co. of India Ltd.	190	
114.	Mukund Iron & Steel Works Ltd.	186	
115.	Hindustan Organic Chemicals Ltd.	184	G
116.	Jessop & Co. Ltd.	182	
117.	Madras Aluminium Co. Ltd.	181	
118.	Hindustan Cables Ltd.	178	G
119.	Motor Industries Co. Ltd.	177	
120.	Mogul Line Ltd.	176	G
121.	Tata Chemicals Ltd.	169	
122.	Modi Spg. & Wvg. Mills Co. Ltd.	168	
123.	Tata Hydro-Electric Power Supply Co. Ltd.	168	
124.	East India Hotels Ltd.	168	
125.	Greaves Cotton & Co. Ltd.	167	
126.	Shri Ambica Steam Navigation Co. Ltd.	167	
127.	New Shorrock Spg. Mfg. Co. Ltd.	167	
128.	Renusagar Power Co. Ltd.	167	
129.	Synthetics and Chemicals Ltd.	166	
130.	Hindustan Sugar Mills Ltd.	166	
131.	Indian Oxygen Ltd.	164	
132.	Ceat Tyres of India Ltd.	161	
133.	Hindustan Zinc Ltd.	160	G
134.	S. B. Joshi & Co.	160	

Rank	Name of Company	Total assets (Rs. Million)	
135.	Straw Products Ltd.	158	
136.	Pfizer Ltd.	158	
137.	Polyolefins Industries Ltd.	158	
138.	Titaghur Paper Mills Co. Ltd.	153	
139.	Walchandnagar Industries Ltd.	152	
140.	Indian Dyestuff Industries Ltd.	157	
141.	Modi Industries Ltd.	150	
142.	Shree Digvijay Cement Co. Ltd.	149	
143.	Andhra Pradesh Pulp Paper Mills Ltd.	149	
144.	Indian Cable Co. Ltd.	149	
145.	Chemicals & Fibres of India Ltd.	148	
146.	Ciba of India Ltd.	146	
147.	Hindustan Photo Films Mfg. Co. Ltd.	144	G
148.	Engineering Const. Corpn. Ltd.	144	
149.	Mohan Meakin Breweries Ltd.	144	
150.	Simon Carves India Ltd.	140	
151.	New Central Jute Mills Co. Ltd.	140	
152.	Tube Investments of India Ltd.	140	
153.	K.C.P. Ltd.	137	
154.	MacNeill and Barry Ltd.	137	
155.	Dhrangadhra Chemical Works Ltd.	136	
156.	Golden Tobacco Co. Pvt. Ltd.	136	P
157.	Instrumentation Ltd.	135	G
158.	Jay Engineering Works Ltd.	135	
159.	National Engineering Industries Ltd.	135	
160.	Sayajee Mills Ltd.	134	
161.	National Newsprint & Paper Mills Ltd.	132	G
162.	Shaw Wallace & Co. Ltd.	132	
163.	Alembic Chemical Works Co. Ltd.	132	
164.	Indian Tourism Development Corpn.	132	G
165.	Firestone Tyre Pvt. Ltd.	131	P
166.	Kirloskar Brothers Ltd.	130	
167.	Fort Gloster Industries Ltd.	130	
168.	Orissa Cement Ltd.	128	
169.	Mahindra Ugine Steel Co. Ltd.	126	
170.	Madras Rubber Factory Ltd.	126	
171.	British India Corpn. Ltd.	125	
172.	Dempo Steamships Ltd.	125	
173.	Martin Burn Ltd.	124	
174.	Atic Industries Ltd.	123	
175.	Aluminium Industries Ltd.	122	
176.	Godavari Sugar Mills Ltd.	121	
177.	Hindustan Brown Boveri Ltd.	121	
178.	Herdillia Chemicals Ltd.	120	
179.	Kirloskar Pneumatic Co. Ltd.	119	
180.	Bharat Forge Co. Ltd.	119	
181.	Automobile Products of India Ltd.	118	
182.	Jaipur Udyog Ltd.	117	
183.	Swastik Rubber Products Ltd.	117	
184.	Dalmia Cement (Bharat) Ltd.	116	
185.	Colour Chem Ltd.	116	
186.	Central India Machinery Mfg. Co. Ltd.	116	
187.	Arvind Mills Ltd.	112	
188.	Khatau Makanji Spg. & Wvg. Co. Ltd.	112	
189.	Bengal Coal Co. Ltd.	112	
190.	Sarangpur Cotton Mfg. Co. Ltd.	112	
191.	Wimco (Western India Match Co. Ltd.)	111	
192.	Saraswati Industrial Syndicate	110	
193.	Simpson & Co. Ltd.	110	
194.	Laxmi Machinery Works Ltd.	110	
195.	Shree Ram Mills Ltd.	110	
196.	Seshasayee Paper & Boards Ltd.	109	
197.	Indian Organic Chemicals Ltd.	108	
198.	India United Mills Ltd.	108	
199.	Kirloskar Electric Co. Ltd.	107	
200.	Associated Bearing Co. Ltd.	107	
201.	Sirpur Paper Mills Ltd.	105	

Note : (G) = Government Companies.

@ = Relates to 1970-71.

(P) = Private Ltd. Company in the private sector.

(b) = Figures obtained from annual report on the workings of the Public Sector Undertakings : 1969-70.

† Government Management.

(J) = Owned equally by Government and private sector.

ALCOHOL INDUSTRY

WINE, SPIRIT & BEER

The liquor industry in the organised sector was set up at the turn of the last century although some units were started much earlier. The Indian liquor industry today manufactures wine, potable alcohol such as whisky, brandy, rum and gin and the breweries manufacture beer.

LOCATION OF THE INDUSTRY

The industry is located all over the country with the major units in the States of Himachal Pradesh, Uttar Pradesh, West Bengal, Andhra Pradesh and Mysore. Recently units have been set up in Bihar, Maharashtra and Goa. At present most of the units are in the private sector and there are proposals to set up units in the public sector also. The liquor industry in each State is subjected to rigorous controls enforced by the Excise Department of the State Governments. Manufacture and distribution of these products are directly controlled by the State Governments.

Production : Production of liquor in 1971 was 59,968 kilolitres.

EXPORTS

Export of Indian liquor in the last 3 years is given below :

(*Value in Rs.*)

	1969–70 April/ March	1970–71 April/ March	1971 April/ December
Beer	12,619	10,870	16,350
Brandy	—	1,070	240
Liqueurs	—	32,199	90,816
Whisky	7,472	8,119	—
Others	20,427	23,568	19,503
TOTAL	40,518	75,826	126,909

IMPORTS

Under the existing import policy established importers are permitted quota licences upto 4 per cent. The basic period for the purpose of calculating the quotas have been from 1951-52 to 1968-69. The imports for the last 3 years is given below :—

(*Value in Rs.*)

	1969–70 April/ March	1970–71 April/ March	1971 April/ November
Wine	422,005	301,582	186,852
Beer	12,091	92,108	12,329
Brandy	252,530	148,838	124,385
Liqueurs ..	—	440,762	19,948
Whisky ..	2,413,345	1,546,618	1,024,613
Others	—	361,115	55,583
TOTAL ..	4,780,676	2,891,023	1,423,710

PROHIBITION

The AICC under the chairmanship of Dr. Sushila Nayyar adopted a resolution on November 5, 1968 advising all State Governments, and particularly Congress Governments, to endeavour to bring about complete prohibition and to draw up a programme so that the policy be implemented in a period of seven years beginning October 2, 1969.

This directive, however, received a major set back in recent years since the State Governments found that they were losing revenue on one side and incurring heavy expenditure on the enforcement of the policy. As a result there was a gradual shift away from prohibition. Now only Gujarat has total prohibition and the rest of the States have either partial prohibition or are totally wet.

Some important units

1. Mohan Meakin Breweries Ltd.,
   P.O. Solan Brewery, Himachal Pradesh.
2. The Rampur Distillery and Chemical Co. Ltd.,
   Rampur, 244901, Uttar Pradesh.
3. Carew & Co. Ltd.,
   Rosa, Shahjehanpur Dist., Uttar Pradesh.
4. Daurala Sugar Works,
   Daurala, Meerut Dist., Uttar Pradesh.
5. E.I.D. Parry Ltd.,
   P.B. No. 12, Madras, Tamil Nadu.
6. Jagatjit Industries Ltd.,
   Jagatjitnagar, Kapurthala Dist., Punjab.
7. Narang Industries Ltd.,
   P.O. Sugar Factory, Nawabganj, Gonda Dist., Uttar Pradesh.
8. Shaw Wallace & Co. Ltd.,
   Bhadrakali, Hooghly Dist., West Bengal.
9. Udaipur Distillery Co. (P) Ltd.,
   Udaisagar Road, Udaipur, 313001, Rajasthan.
10. Kolhapur Sugar Works Distillery,
    Kasba Baroda, P.O. New Palace,
    Kolhapur, Maharashtra.

INDUSTRIAL ALCOHOL

It is a very valuable material in the manufacture of acetone, acetic acid, ether, chloroform, ethyl acetate polyethylene, styrene, polystyrene, etc. It is also necessary as a solvent in the manufacture of fine chemicals, medical preparations, toilets, etc. Since the last war, its importance has increased. It is now essential in the manufacture of ammunition and of artificial rubber.

According to the Tariff Commission, there were 19 distilleries with a total production of 60,000 kilo litres at the time of independence. In 1965, there were 60 distilleries in the country with a capacity of 275,000 kilo litres. Of these 37 were attached to sugar factories, and the rest were independent units.

Its production by 65 distilleries with an installed capacity of 322,445 kilolitres shrank from 253,392 kilolitres in 1970 to 253,000 kilolitres in 1971. The output is feared to have declined further in 1972, in spite of the number of the distilleries going up to 90 and the capacity up to 500,000 kilolitres, owing to drought conditions, and the 15 to 20 per cent fall in sugar cane crop.

The Government had to import about 40,000 tonnes of alcohol in 1972 and may have to import an equal amount this year to keep the alcohol based industries running.

AUTOMOBILE INDUSTRY

BRIEF HISTORY

Leading foreign manufacturers, recognising the scope, established assembly plants at Bombay, Calcutta and Madras. But, with Independence, two Indian factories — the Premier Automobiles Ltd. and Hindustan Motors Ltd. — were set up for progressive manufacture rather than for assembly from imported components. In 1953, acting on the recommendations of the Tariff Commission, Government made the then limited market available only to units having a genuine programme for progressive manufacture and terminated the activities of assemblers not offering manufacturing programmes and, at the same time, restricted the number of makes and models to be produced to a minimum so as to ensure economic volume of output. Again, on the recommendations made by the Tariff Commission in 1956, Government granted protection to the Industry for ten years with priority for manufacture of commercial vehicles, increased production of diesel vehicles and expansion of capacity of existing units. The ad hoc Committee, appointed by Government in 1959 under the Chairmanship of Mr. L. K. Jha, endorsed the recommendations of the Tariff Commission.

The automobile industry depends upon its ancillaries for the manufacture and supply of over 50 per cent of the 5,000 components that go to make an automobile.

LOCATION OF THE INDUSTRY

The bulk of the automobile and ancillary manufacturing units are located in Maharashtra and Tamil Nadu. Of the 17 manufacturers of automobiles, including tractors and two-cum-three wheelers, 5 are in Maharashtra, 4 in Tamil Nadu, with Andhra Pradesh, Bihar, Gujarat, Haryana, Madhya Pradesh, Mysore, Punjab and West Bengal having one each. The pattern of location of the 139 automobile ancillary manufacturing units is 55 in Maharashtra, 32 in Tamil Nadu, 11 in Delhi, 10 in West Bengal, 9 in Haryana, 7 in Gujarat, 5 in Mysore, 5 in Punjab, 3 in Andhra Pradesh, 1 in Madhya Pradesh and 1 in Rajasthan.

No. of Persons Employed : The industry offers immense employment potential both for workmen as well as technicians. The main vehicle sector employs over 52,000 in direct employment and the ancillaries in this sector are engaging the services of over 40,000 people in their manufacturing centres. Total employment brought about by this sector today is around 3·3 million.

Capital Investment : The capital investment in the automobile industry today is Rs. 2,540 million and in the ancillary industry Rs. 600 million. The investment both in the automobile dealer network and the spare parts trade is approximately Rs. 1,000 million.

G. N. P. of the Industry : The value of the automobile industry's products and services is in the region of Rs. 24,000 million, which constitutes approximately 8 per cent of the total industrial production of the country.

Ranking in World Market :

WORLD PRODUCTION OF AUTOMOBILES

(Monthly averages) (thousands)

Country		1961	1971	Increase over 1961 (%)
U.S.A.	A	462·0	720·0	55·8
	B	94·0	171·0	81·9
Japan	A	20·8	309·6	1,388·5
	B	65·8	175·4	166·6
West Germany	A	159·0	308·0	93·7
	B	20·3	23·1	13·8
France	A	82·3	224·5	172·8
	B	18·1	28·5	57·5
U.K.	A	83·7	145·2	73·5
	B	38·4	38·0	—1·1
Italy	A	57·8	141·8	145·8
	B	5·48	9·66	76·3
India	A	2·39	4·19	70·7
	B	2·13	3·12	46·5
WORLD (k)	A	96·50	2,071·7	114·7
	B	322·5	550·8	70·8

(k) excludes China; A: Passenger cars — motor vehicles usable as cars seating less than eight persons; B: Commercial vehicles.

Installed Capacity : Of the automobile industry at the end of 1970 was 62,500 commercial vehicles, 39,500 passenger cars, 10,000 jeeps and 104,500 other vehicles (motor cycles, three-wheelers, mopeds etc.); there has not been an appreciable increase in the installed capacity.

Cost Structure : The industry continued to suffer from high cost of production as in the earlier year. Raw materials accounted for 59·3 per cent of the total value of production and salaries and wages for 14·1 per cent. depreciation cost and other expenses accounted for 7·0 per cent and 13·5 per cent respectively.

Defence Vehicles : The Defence establishments manufacture Shaktiman trucks through an agreement with M.A.N. of West Germany and Nissan 1-ton trucks and Nissan (Jonga) jeep type vehicles. The vehicle factory at Jabalpur was established in 1969 for the manufacture of 6,000 Shaktiman 3-tonne trucks and 7,200 Nissan trucks and petrol vehicles per annum. From the information available the current rate of production of Nissan trucks and Nissan petrol vehicles is 200 nos. and 100 nos. per month, respectively.

EXPORTS

The export of automobiles and ancillaries by value during the last three years is indicated below :

(Rs. in million)

Year	Automobiles	Ancillaries	Total Value of Exports
1969-70 ..	102.0	12.8	143.4
1970-71 ..	148·4	60·6	209·0
1971-72 ..	67·8	51·9	119·7

Export of Automobiles (Nos.)

Year	Buses & Trucks	Cars & Jeeps	Chassis/ Engines	Motor Cycles & Scooters
1969-70 ..	908	835	1,057	219
1970-71 ..	1,975	1,502	1,060	159
1971-72 ..	1,022	129	469	532

Export Incentive : Cash assistance of 20 per cent for commercial vehicles.

PRODUCTION AND CONSUMPTION

The production of various categories of vehicles, including two-cum-three wheelers and their consumption during the last three years is as under.

	Production			Sales		
	1970	1971	1972*	1970	1971	1972*
Cars	35,205	38,316	38,228	35,728	37,717	38,469
Jeeps	9,334	11,053	12,548	9,524	10,677	12,325
Commercial vehicles ..	41,136	41,854	36,269	41,069	41,767	37,028
Motor Cycles	42,968	39,770	46,401	42,130	40,788	46,041
Scooters	58,442	67,211	62,877	59,233	67,248	62,516
Three Wheelers	4,229	6,146	8,928	4,245	6,148	8,837
Mopeds	8,287	13,738	24,222	7,609	11,167	24,204

Agricultural Tractors see Chapter on Agriculture.

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* Estimated.

GENERAL

Ancillary Products : Items like tyres, tubes, batteries, rubber parts, upholstery material and paints were all obtained from indigenous sources when the industry switched over from mere assembly of vehicles to manufacture. There are more than 150 units in the recognised automobile ancillary sector producing all spare parts and components required except for a few items. The production of various categories of spare parts and components during the year 1968-1970 by value are as under :—

(Rs. in million)

	1968	1969	1970
Engine Parts	291	327	408
Electrical Parts ..	64	81	86
Drive, Transmission and Steering Parts ..	129	164	195
Suspension and Braking Parts	174	195	235
Equipment	44	52	54
Chassis and Body Parts	32	32	55
Miscellaneous	108	110	144
Total	842	961	1,177

About 70 firms, in addition, are engaged in the manufacture of storage batteries, ball and roller bearings, leaf springs, H.T. bolts and nuts and tyres and tubes which are not classified exclusively as automobile ancillaries.

Research, Development and Training: Research and testing facilities for automobiles and automobile ancillaries are available at the *Central Mechanical Engineering Research Institute*, Durgapur, the *Indian Institute of Science*, Bangalore 560012, the *National Test House*, Alipore, and the *National Metallurgical Laboratory*, Jamshedpur, which have been utilised by some automobile and ancillary manufacturers. (See the chapter on Research for the addresses.)

In cooperation with the C.S.I.R. an Automotive Research Association has been incorporated. Product testing and development is likely to commence during 1973.

Manufacturing Units : The country now has seven approved manufacturers of automobiles, one manufacturer of engines and five manufacturers of motorcycles, scooters and three-wheelers. The names of manufacturers and the products manufactured by them are as under :

Automobile Manufacturers

Hindustan Motors Ltd., Uttarpara. Hindustan Ambassador cars, and Hindustan trucks & buses in the range of 1 tonne to 7½ tonnes.

Premier Automobiles Ltd., Bombay. Fiat cars, and Dodge and/or Fargo trucks and buses in the range of 1 tonne to 7½ tonnes.

Standard Motor Products of India Ltd., Madras. Standard Herald Mark III cars and Standard 1 tonne Trucks.

Ashok Leyland Ltd., Madras. Leyland Comet trucks and buses, Beaver, Hipo and Jumbo trucks in the range of 5 tonnes to over 16 tonnes.

Tata Engg. & Locomotive Co. Ltd., Bombay. Tata trucks and buses in the range of 5 tonnes to 9 tonnes and 3-axle 10 tonnes Dumpers.

Mahindra & Mahindra Ltd., Bombay. Kaiser Jeeps and ¾ tonne FC 150 and FC 160 Trucks.

Bajaj Tempo Ltd., Poona. Tempo Hanseat 3-wheeler and Tempo Viking and Matador 4-wheeler in the ¾ tonne to 1.6 tonnes range.

Engine Manufacturer :

Simpson & Co. Ltd., Madras, P6 V and P6/354 vehicular diesel engines.

Motorcycles, Scooter, Moped & Three Wheeler Manufacturers :

Automobile Products of India Ltd., Bombay. Lambretta scooters and three-wheelers.

Bajaj Auto Ltd., Poona. Bajaj Scooters and three-wheelers.

Escorts Ltd., New Delhi. Rajdoot motorcycles and Scooters.

Enfield India Ltd., Madras. Enfield Motorcycles and Scooters and three-wheelers.

Ideal Jawa (India) Pvt. Ltd., Mysore. Jawa "YAZDI" Motorcycles.

Pearl Scooters, Ludhiana (Punjab). Pearl Yamaha Scooters
Mopeds India Ltd., Tirupati (A.P.). Suvega Mopeds.

Saund Zweirad Union (India) Pvt. Ltd., New Delhi. Vicky Mopeds.

Tractor Manufacturers

Escorts Ltd., New Delhi. Escort Tractors.

Escorts Tractors Ltd., New Delhi. Ford Tractors.

Hindustan Tractors Ltd., Baroda. Hindustan Tractors.

International Tractor Co. of India Ltd., Bombay. International Tractors.

Eicher Tractors Ltd., Haryana. Eicher Tractors.

Tractors & Farm Equipment Ltd., Massey Ferguson Tractors.

Associations : 1. Association of Indian Automobile Manufacturers, Army & Navy Building, M. Gandhi Road, Bombay-400001. 2. All India Automobile & Ancillary Industries Association, 80, A. Besant Road, Bombay-400018.

Publications : (1) 'Automobile Ancillaries and Accessories', (Bi-Monthly), 20, Noble Chambers, Parsee Bazar St., Bombay-400001. (2) 'Automobile News' (monthly), Arun Chambers, J. Dadajee Road, Bombay-400034. (3) 'Autoguide' (Monthly), 47, Shardhanand Marg, Delhi 110006. (4) 'Auto Spark' (Monthly), Vijay News, Juhu Lane, Bombay 400058. (5) 'Mobile' (Monthly), 11B, Ramachandra Iyer St., Madras 600017.

FOURTH FIVE-YEAR PLAN

The targets for various categories of vehicles and ancillaries in the Fourth Five-Year Plan are as under :

	1971-72	1972-73	1973-74
(*a*) Commercial Vehicles	65,000	75,000	85,000
(*b*) Cars	55,000	65,000	75,000
(*c*) Jeeps	13,000	14,000	15,000
(*d*) (*i*) Motorcycles, Scooters & Mopeds	150,000	175,000	200,000
(*ii*) Autorickshaws	8,000	9,000	10,000
(*e*) Tractors	31,000	36,000	40,000
(*f*) Ancillaries (Rs. in million)	1,150	1,400	1,700

The above estimates do not cover the automobile industry in the Defence Sector. The target of production of commercial vehicles and jeeps in the Defence Sector is 6,000 nos. and 7,000 nos., respectively. At the existing price level, the demand for passenger cars is likely to be 74,000 in 1974 and 129,000 in 1980.

Different types of motor vehicles in States and Union Territories of India as on March 31, 1969. (Compiled from information received up to end of April 1971)

State or Union Territory	Motor cycles (including scooters)	Auto-rickshaws	Jeeps	Cars (private Motor Cars)	Taxis (Motor Cabs)	Buses (Public Vehicles)	Goods Vehicles	Misc. Vehicles	Total
Andhra Pradesh ..	26,845	300	4,607	26,567	1,681	6,207	16,939	7,103	90,249
Assam	4,573	128	2,840	19,748	782	2,662	18,520	9,573	58,826
Bihar	15,696	114	—	22,642	2,178	3,383	12,747	2,664	59,424
Gujarat	32,811	6,062	6,664	23,801	1,899	4,916	20,840	15,569	112,562
Haryana	7,485	10,303	850	3,152	2,100	1,716	7,482	6,853	39,941
Jammu & Kashmir	2,185	272	697	2,519	458	1,355	3,679	273	11,438
Kerala	12,141	—	—	32,328	7,394	5,128	11,078	3,257	78,326
Madhya Pradesh ..	26,713	—	—	22,558	1,366	5,900	18,521	8,071	83,129
Maharashtra ..	55,043	1,827	10,039	90,291	13,741	7,352	44,708	13,772	236,783
Mysore	27,045	3,607	4,437	23,005	1,252	6,386	15,555	6,172	87,459
Nagaland	363	—	—	2,297	—	—	1,799	395	4,854
Orissa	8,645	—	—	12,870	—	2,791	13,808	3,621	41,735
Punjab	20,614	331	—	11,378	—	4,735	9,895	11,522	58,475
Rajasthan	15,701	—	—	20,516	1,311	7,252	17,729	11,142	73,651
Tamil Nadu ..	24,582	1,216	3,629	39,260	6,500	7,898	16,135	4,020	103,240
Uttar Pradesh ..	11,062	—	—	54,048	1,888	18,187	40,407	26,433	152,045
West Bengal ..	21,332	198	5,530	62,177	8,249	7,895	43,034	6,213	154,628
Andaman & Nicobar Islands	232	—	90	58	27	28	210	155	800
Chandigarh	356	—	—	1,020	38	39	170	—	1,623
Dadra & Nagar Haveli	258	—	—	87	—	—	25	5	375
Delhi	58,693	8,214	—	40,627	3,419	4,371	9,410	622	125,356
Goa, Daman & Diu	3,979	65	—	5,163	863	674	4,474	—	15,218
Himachal Pradesh	580	—	—	1,814	—	927	2,105	158	5,584
Manipur	311	—	799	199	—	204	697	198	2,408
Pondicherry ..	2,211	—	—	2,302	33	—	228	786	5,560
Tripura	292	2	—	802	545	253	1,086	347	3,327
TOTAL ..	379,758	32,639	40,182	521,249	55,724	100,259	331,281	138,924	1,600,016

N.B. :—Some States have included autorickshaws in motor-cycles; some have included jeeps in private motor cars while others have clubbed together motor cabs and private motor cars. In three instances goods vehicles include public service vehicles.

CEMENT INDUSTRY

BRIEF HISTORY

Cement, though it may not have been known by that name, is an ancient building material. Evidence of its use is believed to have been found in the Indus civilisation of Mohenjo-daro. The Greeks are also known to have made extensive use of it, but it is to the Romans that the credit must go for having evolved concrete from cement.

Although cement was first manufactured in India near Madras in 1904, it was not until 1914 that the foundations of a stable Indian cement industry were really laid. In October 1914, the first bag of cement was packed at Porbandar by the Indian Cement Company Ltd. (Agents: Tata Sons & Co.). This company then had a capacity of only 1,000 tonnes. Today there are 49 units in the country and the capacity is nearly 18 million tonnes.

LOCATION OF THE INDUSTRY

The State-wise break-up of the units is as follows:

Andhra Pradesh 6, Assam 1, Bihar 7, Gujarat 5, Haryana 2, Jammu & Kashmir 1, Kerala 1, Madhya Pradesh 5, Maharashtra 1, Mysore 5, Orissa 2, Rajasthan 4, Tamil Nadu 7, and Uttar Pradesh 2.

Public Sector: Out of these 49 units 8 are in the public sector. The break-up of these is as follows:

Assam: Assam Cements Ltd.; *Jammu & Kashmir:* J & K Mining and Mineral Corporation; *Madhya Pradesh:* The Cement Corporation of India Ltd., Mandhar; *Mysore:* Mysore Iron & Steel Ltd.; *Orissa:* The Industrial Development Corporation of Orissa Ltd.; *Tamil Nadu:* Tamil Nad Cements; *Uttar Pradesh:* U. P. Government Cement Factory, one at Churk and the other at Dalla.

New Units: At Urkunta (Mysore and)Bokajan (Assam) are almost ready for commissioning and investigations for one plant at Paonta (Himachal Pradesh) and the other at Dehra Dun have been completed by the Cement Corporation.

No. of Persons Employed: About 60,000 including workers in quarries. During 1970 there were 20 disputes and the man-days lost were about 18,000.

Capital Investment: In 1970 it was estimated to be Rs. 2,750 millions.

Contribution to Gross National Product: In 1970 it was Rs. 750 million (Approx.).

Ranking in the World Market: India is the 9th largest cement producer in the world. The first eight countries are the USSR, USA, Japan, West Germany, Italy, France, U.K. and Spain.

PRODUCTION AND CONSUMPTION

In 1970 the cement production was 13·9 million tonnes and the ex-factory value of the product was Rs. 1,390 million.

State-wise production (In tonnes)

State	1968	1969	1970
Andhra Pradesh	1,145,266	1,369,448	1,458,616
Assam	62,366	69,400	54,900
Bihar	1,594,725	1,688,920	1,750,726
Gujarat ..	1,503,903	1,700,138	1,633,113
Haryana ..	511,697	521,827	520,363
J. & K.	N.A.	N.A.	N.A.
Kerala	37,365	43,050	44,925
M.P.	1,612,184	2,030,037	2,013,320
Maharashtra ..	133,047†	160,000	266,561‡
Mysore	1,013,207	1,278,209	1,458,395
Orissa	592,024	655,460	626,611
Rajasthan ..	1,357,284	1,472,064	1,389,803
Tamil Nadu ..	1,984,022	2,239,071	2,388,203
U.P.	344,673	390,567	353,507
TOTAL ..	11,891,733	13,620,823	13,956,411

† Production of Sewree Works of Shree Digvijay Cement Co. Ltd.
‡ Includes production of Chanda Works of The A. C. C. Ltd.
N.A.—Not available.

1971 production was 14,893,957 tonnes and the **1972** production is estimated to be 15·7 million tonnes.

Regional Anomaly: The cement industry faces a peculiar problem of transport. Cement factories are largely concentrated in the southern and western regions of the country because high grade limestone is more abundantly available there, whilst the demand for cement is higher in the northern and eastern regions.

The northern region contributes 17·6 per cent to the total production and needs 27·5 per cent of the total consumption. The eastern region produces 17·8 per cent and consumes 21·3 per cent. The corresponding figures for the western region are 28·3 per cent production and 26·0 per cent consumption and in the southern region 36·3 per cent is produced and 25·2 per cent consumed.

Production of Cement in India & Other Countries in 1970 (in million tonnes). U.S.S.R.: 89·4; U.S.A.: 70·5; Japan: 48·1; West Germany: 36·7; Italy: 31·5; France: 28·1; U.K.: 17·6; Spain: 15·9; India: 13·9.

Production & Despatches

(In million tonnes)

Year	Production	Despatches
1968–69	12·23	12·16
1969–70	13·80	13·72
1970–71	14·34	14·27
1971–72*	15·4	14·99

* Estimated.

Percentage share of these despatches by private sector is 66·64 and public sector is 33·36.

Per Capita Consumption (in kgs.): In terms of per capita consumption India ranks 15th in the world.

Switzerland: 715; Austria: 593; West Germany: 563; Sweden: 481; Belgium: 463; France: 457; Italy: 426; Canada: 398; Netherlands: 378; Spain: 377; Japan: 365; U.S.S.R.: 343; U.S.A.: 342; U.K.: 305; India: 26.

EXPORTS

Year	Quantity in tonnes	Value Rs.
1968–69	205,285	22,609,565
1969–70	134,905	16,649,030
1970–71	168,448	20,261,620
1971–72	193,156	24,922,564

Export Incentives: Prior to April 1968 no export subsidies were available on exports of cement. It was only in 1968 that the Government announced a subsidy of 25 per cent on the f.o.b. realisation from the Market Development Fund and a further subsidy of Rs. 6 per tonne was sanctioned by the Cement Controller. In April, 1968, the State Trading Corporation took over the organisation of cement exports. All such exports are to be routed through the S.T.C. now. Government also gives cash assistance from the Cement Regulation account upto Rs. 17·50 per tonne depending upon the destination of the market.

GENERAL

As the production was short of requirements, statutory control on the price and distribution of cement was imposed as early as 1956 and it continued upto 1965. For a period of two years cement was decontrolled, but the price and distribution were regulated by an organisation of the manufacturers. The Government control was reintroduced in 1968 and is continuing, this time through the respective State Governments.

Meanwhile there was a very encouraging response to the Government's decision to license further capacities on an urgent basis. As many as 28 applications were received by the Ministry of Industrial Development till September 15, 1971 the last date for submission of applications.

The applications, which were for expansion of existing capacity, setting up of new units or for modernisation when licensed, were expected to add about seven million tonnes of cement a year to the production.

A few of these applications were from larger industrial houses. Since cement falls within the heavy investment sector (a cement unit requires an investment of more than Rs. 50 million) the applications were to be scrutinised after clearing the monopoly angle.

Training and Research: Industry has set up a research institute called the *Cement Research Institute of India* at M-10, South Extension II, Ring Road, New Delhi 110016. A well equipped laboratory project with training facilities for scientists will be available at Faridabad, 32 kms. from New Delhi. Basic research in cement technology will be undertaken in the laboratory. The whole project is estimated to cost about Rs. 20 million and is to be completed in 5 years. First phase costing about Rs. 10 million is likely to be completed towards the end of 1973.

Ten Largest Units with Name, Address, Capacity and Production

(Tonnes)

Name & Address	1970	
	Capacity	Production
1. The Associated Cement Cos., Ltd., 121, Maharshi Karve Road, Bombay 400020.	6,567,540	5,173,601
2. The India Cements Ltd., 4th Floor, Dhun Bldg., 175/1, Mount Road, Madras 600002.	1,213,000	1,087,710

(Tonnes)

Name & Address	1970 Capacity	 Production
3. The Jaipur Udyog Ltd., P.O. Ram Krishna Lok, Sawai-Madhopur 322001 (W. Rly), Rajasthan.	1,022,000	780,087
4. Shree Digvijay Cement Co. Ltd., Shree Niwas House, Waudby Road, Fort, Bombay 400001.	840,000	737,844
5. Birla Jute Mfg. Co. Ltd., Satna Cement Works, Satna 48500), Madhya Pradesh.	555,000	593,366
6. Saurashtra Cement & Chemical Industries Ltd., Ranavav 2, Gujarat.	513,665	400,409
7. Dalmia Cement (Bharat) Ltd., Dalmiapuram, Madras.	467,040	503,539
8. Mysore Cements Ltd., No. 1, Vidhana Veedhi, P. B. No. 115, Bangalore 560001.	410,670	386,607
9. Orissa Cement Ltd., Rajgangpur, Orissa.	401,000	383,555
10. Panyam Cements & Mineral Industries Ltd., Cementnagar P.O., Dhone Tq., Kurnool Dist., Andhra Pradesh.	378,000	298,728

FOURTH FIVE-YEAR PLAN

The Fourth Plan target for production is 18 million tonnes. As against a capacity of 19·5 million tonnes at the end of 1972, the installed capacity at the end of 1974 is likely to rise to 26·6 million tonnes and the demand to 19·15 million tonnes.

Publication : 'Cement', C/o Cement Manufacturers' Association, Express Bldg., Churchgate, Bombay 400020.

FILM INDUSTRY

THE Indian film industry ranks first in the world in terms of production, with an average of about 400 films a year. The industry earns annually about Rs. 1,200 million. Of this, about Rs. 60 million is in foreign exchange.

The industry employs about 200,000 persons. There are about 1,800 independent producers, most of them with units either too small or too unwieldy for economic working.

Motion pictures constitute the biggest source of entertainment and recreation to millions in India. Highly speculative in character, films are generally made to please the largest number of people and not for the sake of art or cinematic values.

No. of theatres and cinema houses : With only 7,500 theatres (of which 2,600 are touring cinemas) there is an acute shortage of exhibition facilities. With this shortage, a handful of distributors and exhibitors are able to exercise control over the release of films, creating an artificial imbalance.

The number of cinema houses available — 11 for a population of one million — is among the lowest in the world. Acute paucity of cinema houses adds to the uncertainties of the film production business with theatre rentals on the increase and being unrelated to the draw at the box office of the picture screened.

Finance : It is procured at exhorbitant rates of interest and projects are formulated on the basis of saleability of the stars, the director or the music director. Distribution prices are computed on the estimated realisation on the names of the stars, music director and director of the film.

Films are generally made on borrowed money by independent producers who neither own a studio, nor have any security to offer for borrowed money. Interest rates of financiers are as high as 36 per cent to 60 per cent per annum.

The result is that several projects tend to remain incomplete, for lack of finances or other reasons. Of the 700 films launched in 1969, only 320 were completed and released. Of these, only 10 per cent paid a profit. Another 20 per cent broke even. The rest were flops.

Earnings : There has been a phenomenal increase in box office collections from Rs. 360 million in 1958 to about Rs. 1,600 million in 1971. Of the total box office intake 54 per cent goes to the exchequer by way of taxes and imposts. The exhibitor gets 27 per cent, the producer 15 and the distributor 4 per cent. The distributor is the one who generally has the biggest financial stake in a film, next to the producer.

STRUCTURE OF THE FILM INDUSTRY

Annual output of feature films	400*
Number of studios in operation	58
Number of theatres	7,500
Number of producers (approx.)	1,800
Number of distributors (approx.)	1,200
Number of persons employed in the industry	200,000
Number of laboratories	38
Number of cinemas per million population ..	11
Gross annual earnings	Rs. 1,600 million

* A total of 225 films were produced during June-July 1971.

FILMS PRODUCED IN INDIA (1966 to 1972)

Year	Black-and-white	Colour	Total
1966	308	32	340
1967	330	45	375
1968	356	51	407
1969	295	62	357
1970	311	84	395
1971	289	128	417
1972	236	165	401

Experimental Films : There have been remarkable experiments in cinema in the last few years, starting with Basu Bhattacharya's "Uski Kahani" (1966), Mrinal Sen's "Bhuvan Shome" (1969), Basu Chatterji's "Sara Akash" (1969), Basu Bhattacharya's "Aadhe Adhure" and "Anubhav," Narayan Chakravorty's "Dibratir Kabiya" (1969), Rajinder Singh Bedi's "Dastak" (1971), Satyajit Ray's "Pratidwandi" (1970), Tapan Sinha's "Apan Jan," (1968), Mrinal Sen's "Interview" (1970), Tapan Sinha's "Sagina Mahato" (1970), D. K. Jayakantan's "Unnai Pol Oruvan" (1964), Girish Karnad's "Samskara", P. N. Menon's "Olavum Theeravum" (1969) and "Kuttiedathi" (1970).

Awards: The "Bharat", "Urvashi" and "Phalke" awards have been instituted under the National Awards Scheme of the Government of India (see chapter on "Awards"). The State Governments of Maharashtra, Gujarat, Kerala, Mysore and Tamil Nadu have also instituted their own annual State awards for films.

Filmfare Awards: Were instituted in 1953 and the first presentation was made in 1954. These awards are given annually by the Filmfare magazine of Bennett, Coleman & Co., Ltd. Bombay, publishers of the Times of India and Allied Publications. (For list of **Award winners** see chapter on "Awards".)

Government Support : A very wide ranging, extensive base for promoting the growth and quality of Indian films has been built up since 1947. Several support and service institutions have been created towards this end which are listed below.

Films Division : 24, Dr. Gopalrao Deshmukh Marg, Bombay 400026 : The Films Division of the Ministry of Information and Broadcasting produces and distributes newsreels, documentaries and other films for the information, education and instruction of the people. Till the end of 1971–72, the Films Division had produced 1,610 newsreels and 1,769 documentaries. The Division produces nearly 200 films a year in English and 14 in Indian languages.

Film Finance Corporation, "White House," 91, Walkeshwar Road, Bombay 400006 : Set up by the Government of India to provide finance for the production of films of good quality and standard, the FFC has also undertaken a scheme for financing the purchase of production and projection equipment and construction of art theatres.

Chairman : B. K. Karanjia.

Film and Television Institute of India, Law College Road, Pune 411004 : The Institute trains all categories of film technicians and artistes. It offers diploma courses in film direction, acting, screenplay writing, photography, sound recording, sound engineering and film editing. Situated in idyllic Prabhatnagar, it has extensive facilities for outdoor shooting, a processing laboratory and well-equipped studios. These facilities are made available to regular producers on hire.

Television training courses have been started in New Delhi. At present the courses are in the nature of in-service training.

National Film Archives of India, Film and Television Institute of India, Pune 411004 : The Archive preserves national and international cinema heritage for study, research and reference. It also channelises the diffusion of film culture in the country. It has acquired a vast collection of Indian and foreign films, books, periodicals, disc records, wall-posters and booklets on films. Notable among its acquisitions are several silent films made in the early days of the Indian film industry.

The Archives have set up a distribution library with selected Indian and foreign film classics for the benefit of film societies, and film study groups in the country.

Children's Film Society, Hingorani House, Dr. Annie Besant Road, Bombay 400018 : Set up by the Government of India to produce, acquire, distribute and exhibit films of special interest to children and juvenile audiences, the Society draws its major funds from an annual grant-in-aid. It also earns revenue from commercial and non-commercial screening of its films, sale of prints etc. The Society arranges shows in schools, clubs, factories, colonies, etc. on an annual membership fee of Rs. 50 and hire charges of Rs. 25 per programme. The Society's films are shown by the Central and State Governments through their publicity vans in rural areas. It has so far produced over 80 films.

Chairman : Nandini Satpathy. *Secretary :* H. C. Srivastava.

Central Board of Film Censors, 91, Walkeshwar Road, Bombay 400006 : A statutory body set up under the Cinematograph Act, 1952, the Board sanctions films for public exhibition. During 1971, the Board examined 2,862 films. It granted 1,694 'U' and 12 'A' certificates to Indian films and 1,137 'U' and 62 'A' certificates to imported films. Certification was refused in 11 cases. The total length excised from the films was 7,905·49 metres.

Chairman : V. D. Vyas.

Hindusthan Photo Films Manufacturing Co., Ltd., (details in the chapter on the Government of India Undertakings).

Indian Motion Pictures Export Corporation Ltd. (IMPEC), D. Shivsagar, Dr. Annie Besant Road, Bombay 400018 : Set up by the Government of India under the State Trading Corporation, the IMPEC canalises exports of Indian films. It has prepared an operational plan for three years, with an investment of Rs. 20 million by 1973-74 to capture about 50 per cent of the all-India export trade in films.

Chairman : A. M. Tariq.

EXPORT OF INDIAN FILMS

(In Rs.)

Country	1970-71	1971-72
Abu Dhabi	—	116,175
Afghanistan	496,920	1,040,830
Bahrein	1,701,222	879,844
Barbados	196,800	344,124
Burma	204,165	187,864
Canada	107,190	240,114
Dubai	2,553,309	4,020,373
Ethiopia	37,088	162,020
Fiji Islands	1,418,567	1,065,477
Ghana	189,184	40,270
Greece	5,400	511,400
Hong Kong	406,053	551,024
Indonesia	1,789,649	3,190,032
Iran	1,400,153	—
Israel	210,135	234,641
Jordan	227,900	378
Kuwait	3,211,738	2,477,653

(In Rs.)

Country	1970-71	1971-72
Lebanon	154,441	1,242,945
Libya	—	110,676
Malawi	78,499	1,003,430
Mauritius	1,272,198	1,635,557
Morocco	997,182	1,336,904
Nigeria	1,230,072	2,109,418
Qatar	1,364,545	4,116
Sierra Leone	33,271	117,703
Singapore	4,071,266	5,437,474
Sri Lanka	2,584,967	1,473,252
Southern Yemen	259,667	116,582
Spain	126,485	25,376
Sudan	62,037	251,383
Syria	105,900	—
Tanzania	1,405,242	1,024,969
Thailand	1,925,619	1,093,791
Trinidad	690,597	1,609,364
Turkey	173,904	452,871
U.A.R.	685,306	573,834
U.K.	19,074,858	9,722,331
U.S.A.	583,082	1,128,819
U.S.S.R.	450,243	611,624
Windward Is.	893,500	711,269
Total (including other countries)	53,159,717	47,911,459

IMPORT OF FILMS

The Union Ministry of Foreign Trade decided not to renew the agreement with the Motion Pictures Export Association of America (MPEAA) when it expired on June 30, 1971. American films can now be imported only by IMPEC, a subsidiary of the State Trading Corporation.

The imports relate mostly to developed cinefilms, feature films, advertising shorts and news reels of which Rs. 3·56 million worth were imported in 1970-71 and Rs. 2·27 million worth in 1971-72.

FILM ASSOCIATIONS

Indian Motion Picture Producers' Association, Sandhurst Bldg., Sardar Vallabhbhai Patel Road, Bombay 400004 : Premier organisation of motion picture producers, studio owners and others, the IMPPA's main object is to safeguard their interests. All problems connected with film production and disputes arising therefrom are taken care of by IMPPA. The IMPPA also acts as the central agency for registration of film titles, procurement of raw stock, carbons and other studio requirements.

President : Bakshi Ram Prakash Chibber ; *Vice-President :* Malikchand Kochar ; *Hon. Treasurer :* R. H. Wadia ; *Secretary :* I. K. Menon.

Film Producers' Guild of India Ltd., Shantshree, S. S. Rao Road, Bombay 400012 : Established in 1954, the Guild has a membership of 70 active, regular producers. The organisation looks after all their problems as also difficulties arising out of film production. It makes representations to the Union and State Governments seeking redress of their grievances as also against levies, impositions and taxes. It also ensures regular supplies of materials required in the business of film production.

President G. P. Sippy ; *Vice-Presidents :* Subodh Mukerji, Atma Ram.

Cinematograph Exhibitors' Association of India, Flat No. 22/23 B, Vellard View, Tardeo Road, Bombay 400034: Established on July 1, 1942, the CEAI is registered under the Indian Companies Act. Its main objectives are to help develop the exhibition trade in films and to cooperate with distributors and their organisations to ensure smooth exhibition of films. The organisation takes measures conducive to the interests and welfare of members, in coordination with various interests in the film industry The CEAI has over 800 members on its rolls.

President : B. D. Bharucha. *Secretary :* I. K. Menon.

Indian Motion Picture Distributors' Association, Moghul Lane, Off Sitladevi Temple Road, Mahim, Bombay 400016 : The IMPDA ensures coordination between exhibitors and distributors of motion pictures and takes care of the interests of distributors, in particular. It seeks to bring in self-regulation in the business of film distribution and fair trade practices. It has a membership of 250.

President : Sadashiv J. Rao Kavi.

MAN-MADE FIBRE INDUSTRY

BRIEF HISTORY

The Industry in India is hardly 25 years old. First unit to manufacture viscose rayon filament yarn, The Travancore Rayons Ltd., was incorporated in 1945. The actual production started in 1950.

In 1664 Robert Hooke predicted the possibility of Viscose-fibre, but the reality came into being only in 1884 when the father of rayon industry, Count Hilarie de Chadonnet, produced rayon from nitro-cellulose solution. Commercial production started in France in 1891. But the development of polymer 66 and 6 in nylon is comparatively young and was discovered in Germany in 1938.

In 1941, chemists J. R. Whinfield and J. T. Dickson discovered polyester. I.C.I. developed and produced the fibre commercially in U.K. and became an exclusive licencee for polyester fibre throughout the world except U.S. In the earlier days it was the cellulosic synthetic fibre which made the market, but in the last 20 years the more versatile non-cellulosic synthetic fibres have made tremendous head-way.

In 1951, one unit was producing about 2,500 tonnes of rayon filament yarn in India. Today, there are 9 units engaged in the manufacture of rayon and acetate filament yarn with a total capacity of 38,000 tonnes per annum. There are two units producing rayon staple fibre with a production capacity exceeding 70,000 tonnes per annum. There are also three units which produce rayon tyre cord with a total capacity of 19,000 tonnes per year. There are fifteen units which produce synthetic filament, staple and tyre cord while letters of intent have been issued to sixteen units. On the fabrics side, the production is estimated to be 1,000 million metres.

More than Rs. 2,800 million have been invested in this industry. It employs directly about 30,000 persons and provides raw material for the operation of 110,000 power looms and more than 400,000 handlooms.

LOCATION OF INDUSTRY

SYNTHETIC FIBRE UNITS IN INDIA (in million kgs.)

Name of the unit	Year of commencement	Licensed capacity per annum	Letter of intent
Nylon filament yarn			
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1962	3·84	—
Garware Nylons Ltd., Bombay, Maharashtra (Pimpri-Pune, Maharashtra) ..	1962	2·00	1·84
Nirlon Synthetic Fibres & Chemicals Ltd., Bombay, Maharashtra, (Goregaon, Bombay-Maharashtra)	1962	2·52	1·32
Modipon Ltd., Modinagar, U.P. (Modinagar-Uttar Pradesh)	1968	2·20	2·00
Century Enka Ltd., Bombay-Maharashtra (Bhosari-Pune, Maharashtra) ..	1969	0·72	1·60
Gujarat Polyamides Ltd., Bombay, Maharashtra (Nadiad, Gujarat) ..	—	1·80	0·30
Shree Synthetics Ltd., Ujjain-Madhya Pradesh	1972	1·10	
Stretch Fibres (India) Ltd., Bombay, Maharashtra (Nagpur-Maharashtra) ..	1973	0·54	—
Arthur Import & Export Co., Bombay, Maharashtra	—	0·80	—
Guptalon Ltd., Ludhiana, Punjab	—	1·00	—
The Industrial Development Corpn. Orissa Ltd., Bhubaneshwar, Orissa ..	—	—	2·10
Assam Industrial Development Corpn. Ltd., Shillong, Assam	—	—	2·10
M.P. Audyogik Vikas Nigam Ltd., Bhopal, Madhya Pradesh	—	—	2·10
Haryana State Industrial Development Corpn., Ltd., Chandigarh, Haryana	—	—	2·10
Mysore State Industrial Investment and Development Corpn. Ltd., Bangalore, Mysore	—	—	2·10
Gujarat Industrial Investment Corpn. Ltd., Vadodara, Gujarat	—	—	2·10
The Tamil Nadu Industrial Development Corpn. Ltd., Madras, Tamil Nadu	—	—	2·10
Andhra Pradesh Industrial Development Corpn. Ltd., Hyderabad, Andhra Pradesh	—	—	2·10
The Kerala State Industrial Development Corpn. Ltd., Trivandrum, Kerala	—	—	2·10
Bihar State Industrial Development Corpn. Ltd., Patna, Barauni, Bihar ..	—	—	2·10
Punjab State Industrial Development Corpn. Ltd., Chandigarh, Ludhiana/Amritsar, Punjab	—	—	2·10
West Bengal Industrial Development Corpn. Ltd., Calcutta, West Bengal (West Bengal)	—	—	2·10
The U.P. State Industrial Development Corpn. Ltd., Kanpur, Uttar Pradesh, (U.P.)	—	—	2·10
Total ..	—	16·52	34·36
Nylon staple fibre			
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1971	1·35	—
Arthur Import & Export, Bombay, Maharashtra	—	0·30	—
Total ..	—	1·05	—
Nylon tyre cord			
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1968	1·00	—
Nirlon Synthetic Fibres & Chemicals Ltd., Bombay Maharashtra (Goregaon, Bombay, Maharashtra)	1971	1·42	—
Shriram Fibres Ltd., New Delhi, (Madras-Tamil Nadu)	—	2·00	—
National Rayon Corpn. Ltd., Bombay Maharashtra (Kalyan, Maharashtra)	—	2·20	—
Total ..	—	6·62	—
Acrylic staple fibre			
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1968	4·00	—
Indian Petro-chemical Corpn. Ltd., Vadodara, (Gujarat)	—	—	12·00
Total ..	—	4·00	12·00

SYNTHETIC FIBRE UNITS IN INDIA — *Contd.* (in million kgs.)

Name of the unit	Year of commencement	Licensed capacity per annum	Letter of intent
Polyester staple fibre			
Chemicals & Fibres of India Ltd., Bombay, Maharashtra (Thana-Maharashtra)	1965	6·10	—
The Ahmedabad Manufacturing & Calico Printing Co. Ltd., Ahmedabad, Gujarat	—	6·10	—
Swadeshi Polytex Ltd., Ghaziabad, (Kavinagar, Ghaziabad, Utter Pradesh)	1973	6·10	—
Indian Organic Chemicals Co. Ltd., Bombay, Maharashtra (Manali, Tamil Nadu)	1973	6·10	—
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1972	0·45	—
Punjab State Industrial Development Corpn. Ltd., Chandigarh, Amritsar, Punjab	—	—	6·00
Total ..	—	24·85	6·00
Polyester filament yarn			
Nirlon Synthetic Fibres & Chemicals Ltd., Bombay, Maharashtra, (Goregaon, Bombay, Maharashtra)	1967	0·36	—
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1967	0·36	—
Garware Nylon Ltd., Bombay, Maharashtra (Pimpri-Pune-Maharashtra) ..	1973	0·36	—
Modipon Ltd., Modinagar, U.P. (Modinagar, U.P.)	1973	0·36	—
Total ..	—	1·44	—
Polypropylene staple fibre			
Neomer Ltd., Vadodara, (Gujarat)	—	—	6·00
Total ..	—	—	6·00
Total for synthetic fibres	—	55·08	58·36

Rayon Units in India

Sirsilk Ltd., Sirpur, Kagaznagar, Andhra Pradesh ; The Baroda Rayon Corp. Ltd., Udhna, Surat Distt., Gujarat ; The Indian Rayon Corp. Ltd., Veraval Rd., Junagadh, Gujarat ; Travancore Rayons, Rayanpuram, Kerala ; Gwalior Rayon Silk Mfg. (Wvg.) Co., Ltd., Birlagram, Nagda, Madhya Pradesh ; Century Rayons, Murbad Rd., Shahad, Kalyan, Thana Dist., Maharashtra ; Gujarat Nylons Pvt. Ltd., Pimpri, Pune-411018 ; Nylon Synthetic Fibre and Chemicals Ltd., Pahadi, Goregaon, Bombay-400062, Maharashtra ; Shriram Rayons, Shrirampur, Industrial Area, Kota, Rajasthan ; South India Viscose Ltd., Sirmugai, Mettupalayam, Tamil Nadu ; J. K. Rayons, Jaykaypur, Kanpur, Uttar Pradesh ; Kesoram Rayons, Trebeni, Hooghly Distt., West Bengal.

PRODUCTION

TABLE SHOWING (A) PRODUCTION AND (B) LICENSED CAPACITY OF MAN-MADE FIBRE UNITS IN METRIC TONNES

	RAYON				SYNTHETICS					
Year	Viscose filament	Viscose staple	Acetate	Viscose tyre cord	Nylon filament	Polyester	Acrylic fibre	Nylon tyre cord	Grand total of Rayon and Synthetics	No. of plants established
(A) Production										
1951	2,461	—	—	—	—	—	—	—	2,461	2
1954	5,019	4,224	368	—	—	—	—	—	9,629	4
1962	26,237	32,382	1,386	696	176	—	—	—	60,897	11
1965	35,213	37,151	2,033	7,512	1,480	1,385	—	—	84,774	15
1971	36,845	60,740	1,622	17,001	9,936	5,729	—	—	131,873	17
(B) Licensed										
Capacity ..	40,500	26,000	5,400	19,000	16,540	30,500	4,000	4,400	147,340	

Following table shows the production figures of various Synthetic fibres for the period 1965-71.

(Quantity in million kg.)

Year	Staple Fibre			Filament Yarn				
	Cellulosic		Synthetic		Cellulosic		Synthetic	
	Viscose	Acetates	Polyester	Viscose	Acetates	Nylon	Polyester	Total
1965	37	..	1	35	2	2	..	77
1966	43	0·5	2	33	1	2	..	81·5
1967	52	0·1	3	35	2	2	..	94·1
1968	62	0·5	5	36	1	5	..	109·5
1969	58	0·5	6	37	2	8	..	111·5
1970	63	0·2	5	36	2	10	0·6	116·8
1971	60·7	0·3	5·7	37	1·0	10·8	0·5	116·6

Production Targets for Manmade Fibres, by 1973-74:

The overall production of synthetic fibres may go up to 45,000 to 50,000 tonnes per annum by 1974. Planned estimate for total production of cellulosic and synthetic yarn for 1973–74 is 217,000 tonnes. The break up of 1973–74 estimate is as follows: Rayon filament 64,000 tonnes; Rayon staple 90,000 tonnes; Nylon filament rayon and other industrial yarn 29,000 tonnes; Polyester filament and staple 22,000 tonnes; Acrylic fibre 12,000 tonnes; and man-made fabrics 1,500 million mts.

Production of Manmade Fibres (India V/s World)

(million kg.)

Year	India Man-made Fibres		World Man-made Fibres	
	Qty.	%	Qty.	%
1965	75·1	7·1	5,400	29
1966	82·3	8·2	5,837	32
1967	94·2	9·4	6,202	34
1968	109·6	10·1	7,330	36
1969	110·5	10·2	7,964	38
1970	116·8	10·6	8,385	40
1971	116·6	11·4	9,337	41

Synthetics account for 41 per cent of the world textiles. World production of man-made fibres has gone up from 9,000 tonnes in 1912 to 9·4 million tonnes in 1971 comprising 3·5 million tonnes of rayon and 5·9 million tonnes of synthetics.

Per Capita World Consumption of man-made fibre in 1969 (the latest available) was as under: (figures in kg.) U.S.A. 11·4; Netherlands 10·7; Canada 8·8; U.K. 7·5; Germany 9·1; Sweden 9·3; Denmark 7·3; Japan 6·3; France 5·6; South Africa 4·1; Spain 3·7; Italy 4·0 and India 0·2. Per capita world consumption of man-mades has risen from 0·8 kg. in 1951 to 3·2 kg. in 1971.

IMPORTS

INDIGENOUS PRODUCTION AND IMPORTS OF MAN-MADE FIBRES IN INDIA

(Quantity in '000 kg.)

Year	Particulars	YARN			
		Cellulosic Yarn			Non-Cellulosic Yarn
		Viscose Filament Yarn	Acetate Filament Yarn	Cuprammonium Rayon Yarn	Other Filament Yarn including Nylon, Acrylic, Polyester, Polypropylene, P.V.C. and P.V.A. Filament Yarn etc.
1968	Production	36,038	1,471	—	5,334 (N)
	Imports	1	—	60	3,089
	Availability	36,039	1,471	60	8,423
1969	Production	36,602	1,537	—	8,129 (N + P)
	Imports	14	—	25	2,210
	Availability	36,616	1,537	25	10,339
1970	Production	35,914	1,751	—	10,349
	Imports	—	—	—	2,969
	Availability	35,914	1,751	—	13,318
1971	Production	36,848	1,622	—	11,363
	Imports	—	—	—	5,150
	Availability	36,848	1,622	—	16,513

INDIGENOUS PRODUCTION AND IMPORTS OF MAN-MADE FIBRES IN INDIA

(Quantity in '000 kg.)

STAPLE				TOTAL	
Cellulosic	Non-Cellulosic				
Viscose Acetate Staple Fibre	Nylon Staple Fibre	Polyester Staple Fibre	Acrylic, Polypropylene, P.V.A., P.V.C. etc.	(Yarn + Staple)	Per capita availability of all Man-Made Fibres (in kgs.)
62,087 (V + A)	—	4,697	—	109,627	
—	168	476	722	4,516	
62,087	168	5,173	722	114,143	0·22
58,640 (V + A)	—	5,738	—	110,646	
—	121	939	784	4,093	
58,640	121	6,677	784	114,739	0·21
63,530	—	5,332	—	116,876	
5,388	130	2,589	1,285	12,361	
68,918	130	7,921	1,285	128,237	0·23
61,068	—	5,729	—	116,630	
10,193	144	3,821	2,741	22,049	
71,261	144	9,550	2,741	138,679	0·25

Note : N = Nylon, V = Viscose, A = Acetate, P = Polyester.

EXPORTS

The exports of rayon, synthetic and mixed fabrics of leading varieties were as follows :—

Rayon : 9,228,540 mts. (valued at Rs. 16,789,314) in 1969 ; 12,483,727 mts. (valued at Rs. 25,598,826) in 1970 ; 17,960,896 mts. (valued at Rs. 40,454,058) in 1971.

Synthetic Fabrics : 320,764 mts. (valued at Rs. 1,383,173) in 1969 ; 2,081,706 mts. (valued at Rs. 11,323,748) in 1970 ; 2,732,521 mts. (valued at Rs. 14,781,838) in 1971.

Mixed Fabrics : 1,775,284 mts. (valued at Rs. 8,570,134) in 1969 ; 1,911,384 mts. (valued at Rs. 5,968,423) in 1970 ; 2,380,969 mts. (valued at Rs. 9,617,632) in 1971.

Exports of Rayon and Synthetic Fabrics

1969 to 1971

Year	Qty. mts.	Value Rs.
1969	11,324,588	26,742,620
1970	16,476,817	42,890,997
1971	23,074,359	64,858,528

Non-Fabric Exports : Tyre yarn worth Rs. 11,392,073 (1,546,929 kg.), tyre cord worth Rs. 59,923 (6,826 kg.) and other non-fabric items worth Rs. 12·2 million were exported from India in 1971–72. These figures are provisional.

Total Export : During 1971–72, exports of man-made textiles and allied items aggregated Rs. 98·4 millions. Of these exports of rayon and synthetic textiles alone were Rs. 78·4 millions showing an improvement of 43 per cent over the last year.

Export Promotion Council: The Silk and Rayon Textiles Export Promotion Council (Resham Bhavan, 78, Vir Nariman Road, Bombay-1) is playing a key role in encouraging the industry to adapt its production pattern to suit the requirements of export markets. The research and development bill of the Council is devoted specifically to this cause.

RAW MATERIALS

The main raw material pulp is currently being imported for viscose rayon filament manufacture. The viscose staple production is based on domestic pulp. The capacity of the first rayon grade pulp mill in Kerala is 66,000 tonnes per year. A 20,000 tonnes per year capacity pulp mill has recently gone into production in South India and another unit of 33,000 tonnes per year is under construction in Mysore State.

Caprolactum (for cylon-6, staple fibre and tyre cord) and DMT and ethylene glycol (for polyester staple fibre and filament yarn) are raw materials required for the production of synthetic fibres now being imported.

Gujarat Refinery, however, will shortly have an abundant supply of benzene, which is proposed to be used for the manufacture of caprolactum and naphtha for DMT. Two plants are under construction for the production of DMT., one by **Petrochemical Corporation of India,** and the other by **Gujarat State Fertiliser Corporation** due to start by 1973. The Corporation plant will have a capacity of 24,000 tonnes of DMT a year, while the GSFC plant will produce 20,000 tonnes. The Corporation will also instal another plant to produce acrylonitrile (24,000 tonnes per year). By 1974 it will start producing propylene (30,000 tonnes) which could be converted into polypropylene, which can be meltspun directly for the production of cheap but sturdy industrial fibre.

GENERAL

Taxes : A high level of taxation is one of the main problems of the industry. The burden of excise duty alone on nylon yarn has been raised progressively from Rs. 6 in 1967 to Rs. 35 per kg. in the last budget. The Government has also raised the duty on caprolactum from 60 per cent to 65 per cent. It is estimated that the total incidence of duty and taxes at the consumer end runs as high as 30 per cent to 40 per cent of the retail price.

Fifth Plan : The annual demand estimated for the man-made fibre industry made by the Association of Man-made Fibre Industry is 295 million kg. of cellulosics and 115 million kg. of synthetics, while the Association of Synthetic

Fibre Industry places it at 172 million kg. of cellulosics and 182 million kg. of synthetic by the end of the Fifth Plan.

Research And Training : *The Silk and Art Silk Mills' Research Association*, SASMIRA- Dr. Annie Besant Road, Worli, Bombay 400025, conducts research and offers training facilities for various diploma courses to students who have passed the matriculation standard.

A group of Synthetic Fibre industry has submitted a science and technology plan (for the development of the man-made fibre industry in India) to the Government, with an outlay of Rs. 375 millions in the Fifth Plan. This would ensure direct employment of about 200 scientists and technologists.

LICENSING OF RAW MATERIALS FOR THE MANUFACTURE OF MAN-MADE FIBRES IN INDIA

(In Tonnes per Annum)

Item	Licensed Capacity	Capacity Covered by Letters of Intents/ Approval	Total	Estimated Production of Fibres on the Basis of Raw Materials Capacity	Remarks
Rayon Grade Wood Pulp ..	1,18,600 (in production)	89,500	207,600	188,700 Vicsose Fibre/Yarn	
Linter Pulp ..	6,600 (Travancore Rayon)	6,600 (Travancore Rayon)	13,200		
Caprolactum ..	20,000 (G.S.F.C.) (1973)	—	20,000	18,200 Nylon Yarn/ Fibre	
D.M.T.	24,000 (Koyal's) (1972)	33,000 (Assam) (1975-76)	57,000	52,000 Polyester Fibre/Yarn	
Acrylonitrile ..	24,000 (Koyal's) (1975)	—	24,000	16,000 Acrylic Fibre	Part of this capacity will be used for manufacture of items other than fibre.
Polypropylene ..	30,000 (Koyal's) (1975)	—	30,000	6,000 Polypropylene Fibre	Bulk of this capacity will be used for manufacture of items other than fibre.

Note : In addition to the above, it is understood that the Government of India is seriously considering setting up of a 50,000 tonnes/year Caprolactum Plant and a 30,000 tonnes/year D.M.T. Plant at suitable locations during the Fifth Plan Period.

Countrywise Production of Cellulosic & Non-cellulosic Fibre

Qty. in million kg.

Country	Percentage to the total man-made fibre production	Cellulosic		Total	No. of plants	Non-cellulosic		Total	No. of plants	Grand Yarn	Total Staple	Total	No. of plants
		Yarn	Staple			Yarn	Staple						
U.S.A.	27·62	342	290	632	19	992	955	1,947	153	1,334	1,245	2,579	172
Japan	17·56	122	354	475	22	531	634	1,165	89	652	988	1,640	111
West Germany ..	8·24	75	90	165	9	335	269	604	40	410	359	769	49
U.S.S.R. ..	7·24	230	243	473	20	132	71	203	34	362	314	676	54
U.K.	6·49	85	162	247	10	193	166	359	39	278	328	606	49
Italy/Malta ..	5·11	83	96	179	22	135	163	298	51	218	259	477	73
France	3·72	53	79	132	10	99	116	215	26	152	195	347	36
East Germany ..	2·13	34	123	157	8	14	28	42	8	48	151	199	16
India	1·42	55	61	116	12	11	6	17	15	66	67	133	27
Poland	1·59	29	53	82	6	28	39	67	8	57	92	149	12
Netherland ..	1·53	37	—	37	2	67	39	106	10	104	39	143	12
Canada	1·32	15	23	38	3	60	25	85	22	75	48	123	25
Spain	1·49	22	38	60	5	34	45	79	42	56	83	139	47
Czechoslovakia ..	1·16	21	48	69	5	24	15	39	7	45	63	108	12
Others	13·28	193	387	580	73	395	274	669	268	588	661	1,249	341
World Total ..	100·0	1,395	2,047	3,442	226	3,050	2,845	5,895	810	4,445	4,892	9,337	1,036

MISCELLANEOUS MANUFACTURES

FOLLOWING table gives installed capacity, production etc. of various items manufactured in India during 1971-72.

Industry	Accounting Unit	Installed Capacity	Production	Production as % of Capacity
Air Compressors	Nos.	7,740	5,805	75·0
Air Conditioners—Portable Room	,,	207,000	127,722	61·7
Aluminium Conductors	M/T	97,824	64,091	65·5
Auto Leaf Springs	,,	36,600	25,995·5	71·0
Ball, Roller Bearings	Th. Nos.	1,353·6	1,208·7	89·3
Bandsaw Blades—Metal Working, Cutting	R. Metres	1,134,996	1,388,761	122·3
Bandsaw Blades—Wood Working, Cutting	,,	1,205,004	856,330	71·0
Bicycle Complete	Nos.	2,175,000	2,056,561	94·5
Bolts, Nuts, Rivets & Digspikes	M/T	48,900·0	25,018·5	51·2
Brass Lamp Holders	Thousands	2,218·8	459·8	20·7
Bright Bars	M/T	82,572	48,390	58·6
Chain Pulley Blocks	Nos.	12,720	2,390	18·7
Clocks	,,	105,000	100,013	95·0
Conduit Pipes	Th. R. Metres	2,006·4	2,193·5	109·0
Cranes (other than mobile cranes)	M/T	24,720	5,736	23·2
Crown Cork	M. Nos.	705·6	1,223·6	173·3
Diamond Drill Bits	Nos.	45,000	20,902	46·4
Diesel Engines—Stationery Type	,,	77,064	66,138	85·8
Diesel Engines—Vehicular Type	,,	9,000	3,301	36·6
Domestic Refrigerators	,,	36,792	64,726	175·9
Dry Cells	Lakhs	4,689·6	4,876·6	104·0
Duplicators	Nos.	7,500	3,370	44·9
Electrical Fans	,,	1,815·6	1,528·8	84·2
Electric Lamps (Total)	Thousands	77,599·6	112,769·7	145·3
Electrical Motors	HP	2,569·2	2,796·0	108·8
Electric Welding Machines	Th. Rs.	6,996·0	6,698·0	95·7
Enamelware	Hundreds	26,592·0	35,720·0	123·9
Expanded Metal	M/T	1,440	666	46·0
Forged Hand Tools	Mil. Rs.	36·44	60·14	165·0
Furnaces	Th. Rs.	65,004	30,386	46·7
Gas Welding & Cutting Equipment	,,	10,896·0	7,853·0	72·0
HT Bolts and Nuts	M/T	6,000·0	4,124·2	68·7
Hacksaw Blades	Hundreds	410,004	199,204	48·5
House Service Meters	Thousands	1,429,992	1,799,620	125·8
Hurricane Lanterns	,,	3,120·0	3,569·0	114·3
Incandescent Filament Lamps	,,	83,400·0	105,249·5	126·2
Industrial Machine Knives	Nos.	699,996	180,352	25·8
Lathe Tools (Tool Bits)	Th. Nos.	1,056	785	74·3
Lifts	Nos.	672	474	70·5
Machine Screws	M. Nos.	222·0	433·6	195·0
Machine Tools Accessories	Th. Rs.	13,896·0	19,303·0	138·8
Machine Tools — Metal Working	,,	550,596	290,818·0	52·8
Machine Tools (Total)	,,	693,384	394,429·9	56·8
Measuring Instruments	Nos.	156,000	187,329	120·0
Measuring Tapes	,,	3,003,000	2,115,955	70·4
Milling cutters	,,	420,000	300,451	72·2
Miniature Lamps	Thousands	33,840·0	39,976·3	118·1
Motor Cycles	Nos.	68,004	42,968	63·1
Motor Starters	Thousands	378·0	500·8	132·4
Motor Vehicles (Total)	Nos.	74,804	85,721	115·3
Oil Pressure Lamps	Thousands	64·8	26·5	40·8
Paper Insulated Power Cables	Kilometres	8,244·0	2,364·0	28·6
Pencils	Mil. Nos.	126·96	86·47	68·1
Pen Stocks	M/T	25,500	7,104	27·8
Photographic Printing Paper	Th. Sq. Metres	3,300·0	2,146·9	65·0
Plastic Accessories	Thousands	9,243·6	5,823·4	63·0
Plasticisers	Th. Kgs.	13,200·0	10,953·3	82·9
Plastic Working Machines	Th. Rs.	18,204·0	23,762·0	130·5
Portable Tools	,,	26,496·0	28,730·0	108·4
Power Driven Pumps	Thousands	159·6	269·2	168·6
Power Transformers	Th. KWA.	6,265·2	7,099·5	113·3
Radio Receivers	Nos.	2,323,228	1,773,935	76·4

Industry	Accounting Unit	Installed Capacity	Production	Production as % of Capacity
Railway Locomotives	Nos.	174	140	80·4
Razor Blades	Mil. Rs.	1,545·0	910·33	58·9
Re-Rolling Plants and Sand & Shot Blasting	Th. Rs.	9,696·0	6,978·0	71·9
Road Rollers	Nos.	1,620	167	10·3
Rubber & Plastic Insulated Cables & Flexibles	Mil. Metres	814·20	425·87	52·3
Sewing Machines	Nos.	492,996	204,076	41·3
Sewing Machine Needles	Th. Nos.	8,400	13,028	155·0
Shuttle (Textile)	Nos.	207,000	127,722	61·7
Steel Files	Hundreds	10,104	12,935	128·0
Storage Batteries	Thousands	1,068·0	2,364·0	221·0
Stoves (Non-pressure type)	Nos.	162,000	442,181	272·9
Stoves (Pressure types)	,,	49,992	17,535	35·0
Spinning Frames	Nos.	504	86	17·0
Thermos Flask	Th. Pcs.	2,160·0	3,915·0	181·0
Threading Tools	Nos.	2,807,004	2,643,716	94·1
Tractors	,,	24,504	20,545	83·8
Trailers	,,	7,308	3,004	41·1
Tungsten Carbide Tipped Tools	,,	726,000	695,795	95·8
Tungsten Carbide (Sintered)	Kg.	170,004	142,444	83·7
Twist Drills	Thousands	10,059·6	9,856·6	97·9
Typewriters	Nos.	80,196	38,604	48·1
Water Meters	,,	330,000	160,140	48·5
Winding Wires	M/T	27,300	16,146	59·0
Wire Ropes	,,	34,440	19,295	56·0
Wood Screws	Mil. Nos.	1,016·0	1,373·8	135·1
Wood Working Machines	Th. Rs.	3,504·0	499·0	14·2
Zip Fasteners	Th. Meters	2,930·4	3,621·0	126·9

Glass : India manufactures almost all varieties of glass, like containerware, sheet glass, wired and figured glass, tableware, lampware, fibre glass, laboratory glass, glass tubing, optical and ophthalmic glass, bangles, beads, etc. The present production of glass is of the order of 350,000 tonnes, out of which containers and flat glass account for 175,000 and 80,000 tonnes respectively. The total investment is around Rs. 600 million and the value of production about Rs. 500 million. The industry provides employment to nearly 80,000 workers. The 1970-71 exports amount to Rs. 18.48 million, mostly consisting of flat glass, penicillin vials, vacuum flasks, bangles and beads. The imports amount to Rs. 18.13 million. There are about 70 units with a combined capacity of 410,000 tonnes. A number of new items have been included in the range of laboratory glass-ware, like sintered glassware and shells for mercury vapour lamps.

A public sector ophthalmic glass plant having a capacity of 300 tonnes per annum was set up by the Government of India at Durgapur, West Bengal, with Soviet assistance. The factory started production of spectacle glass blanks in 1969.

At present, glass bottles and jars are in very short supply and steps are therefore being taken to increase their production to 300,000 tonnes by 1973-74, mostly by automatic forming methods. The demand for flat glass in 1973-74 is estimated to be 20 million sq. metres.

Soap : The organised sector contains some 43 units with an installed capacity of 213,000 tonnes per annum, though all of these are not in actual production, while the cottage sector contains over 3,000 units scattered throughout the country.

The following figures give the production in tonnes in the organised sector. 1965 : 160,000 ; 1966 : 170,000 ; 1967 : 180,000 ; 1968 : 190,000 ; 1969 : 220,000.

The item-wise data on the export of soap from India are shown in the table below :

(Rs. in million)

Item	1969-70	1970-71
Household and Laundry Soap	1.73	2.30
Medicated Soap	0.26	0.29
Toilet Soap	2.51	1.77
Others	2.70	5.86
TOTAL	7.20	10.22

PACKAGING INDUSTRY

Many new materials have been manufactured and made available to the industry and new uses have been developed for existing materials. The materials that are now available are paper and paper based products, metal containers and foils, glass, plastics rigid and flexible, cellulose films, textiles including jute and woven plastics and wood.

It may be mentioned that a great deal remains to be achieved both qualitatively and quantitatively, in addition to the production of packaging materials like polypropylene and polyesters, which are so essential for improved packaging.

Paper and Paper-Based Products : Among all packaging materials, paper and paper-based products continue to occupy a predominant place. Paper-based materials used for packaging include bleached and unbleached kraft, glassine, tissue paper, boards of various types, corrugated and solid fibreboards, and large variety of converted items like wax coated, plastic coated, bitumen coated etc. etc.

Although the exact production and consumption data are not available in many of the converted items, significant increases have been achieved in recent years. Some speciality items like glassine, grease-proof paper, etc. are now being manufactured indigenously. Multi-wall paper sacks for heavy-duty packaging applications are rapidly coming into use. Several varieties of coated papers are being produced for special packaging needs as also waxed board containers and cartons for frozen foods.

Corrugated and solid fibreboard boxes have replaced the conventional wooden boxes as transport containers because of their light weight and satisfactory strength.

The estimated demand of paper for packaging is given below :

	1968-69 tonnes	1973-74 tonnes
Paper for bags and wrappers	101,385	235,690
Labels	15,015	32,435
Paper board cartons	65,065	138,440
Corrugated board	48,000	92,000
Solid fibreboard	3,280	15,100
Straw board	29,360	53,780
	262,105	567,445

There are, however, several areas in which this sector is lagging behind the developed countries. They include mainly production of parchment paper for use in packaging of biscuits, etc., sack kraft paper and high strength kraft for producing corrugated fibreboard of good strength characteristics.

Tinplate : Tinplate containers are used in milk products, processed fruits, coffee, biscuits, confectionery, vanaspati, petroleum products, paints, pesticides, etc. It has been estimated that the **Demand** for this will increase from about 132,000 in 1968-69 to about 223,000 tonnes by 1973-74, a growth of 70 per cent if free availability is ensured.

Tinplate has, however, been on the banned list for the last one decade resulting in a shift to plastics and paper in certain areas.

With the commissioning of the electrolytic tinning lines at Rourkela Steel Plant, Orissa, this situation is likely to ease considerably. However, the industry has to consider seriously the manufacture of continuously annealed lower substance tinplate, 2 CR tinplate as well as tin-free steel which are increasingly used in advanced countries because they are cheaper.

Aluminium : Light weight, non-toxicity, excellent barrier properties, high reflectivity and good printability have made aluminium in various forms enter the packaging field in a big way. The packaging industry requires aluminium, basically as foil for flexible packages, slugs for collapsible and rigid tubes and sheets for caps and closures.

Aluminium foil in appropriate gauges is used as tea chest lining, taggers, caps for milk bottles, capsules, labels, wraps and pouches. Other applications include items like soap and toilet wraps, butter and cheese, contraceptives, photo films, dehydrated food, and defence packaging. It is understood that a fair quantity of foil is also exported. The **Estimated Consumption** of foil by packaging industries in 1967-68 was 4,100 tonnes which was an appreciable increase over the previous year i.e. 3,750 tonnes in 1966-67, and the **Estimated Demand** for 1973-74 is over 7,500 tonnes.

Consumption of aluminium slugs by the packaging industries in 1968-69 amounted to 1,200 tonnes and the estimated consumption in 1973-74 is about 2,100 tonnes. The traditional sources of demand for aluminium slugs have been collapsible and rigid tubes for packaging of pharmaceuticals and toilet preparations. A good demand for aluminium aerosols and aluminium tubes for packing of certain chemicals such as optical whitening agents are envisaged. The estimated demand for 1973-74 is 2,320 tonnes.

Aluminium container sheet finds its application for the fabrication of pilfer-proof closures, screw caps and seals for medicinal vials and, to a limited extent, for pharmaceutical ointment containers. In 1967-68 the consumption of aluminium container sheets by the packaging industry was 1,500 tonnes. Substantial increase in consumption has been envisaged during the coming years.

Cellulosic Films : Cellulose films enjoy quite a popular place among packaging materials. On account of their sparkling clarity, transparency, machineability, oil and grease-proofness and their good water vapour and gas barrier properties. It is used as a direct wrap for items like textiles, biscuits, confectionery, certain pharmaceutical preparations, etc., as a carton or bottle overwrap ; in bag or pouch form ; and as a component of many flexible laminates.

The Demand for this film has been estimated at about 10,000 tonnes in 1973-74, as against a **Consumption** of 6,000 tonnes in 1968-69. Although the industry has made rapid strides, production of newer types like PVDC coated films, high yield varieties and films that give tailored protection are yet to be introduced.

Plastics : The important plastics made in India are the thermoplastics polyethylene (low & high density), polyvinylchloride and polystyrene, and the thermosets like U.F., M.F., and P.F. The **Annual Consumption** of plastics in the field of packaging is estimated at over 20,000 tonnes. Advantages are chiefly flexibility, easy mouldability, unbreakability, light weight, attractive and hygienic appearance and water-vapour impermeability.

Plastics are available in the form of films, laminates, coatings, bags, moulded containers, etc. for variety of packaging applications. However, India has yet to produce certain important types like PVDC, polypropylene and polyester.

The estimated demand for the important plastics for packaging is as follows :

	1968-69 (tonnes)	1973-74 (tonnes)
Polyethylene (L.D. & H.D.) ..	14,400	47,000
Polystyrene	540	1,200
PVC	—	10,000
Thermosets	300	450
	15,240	58,650

Glass : In spite of its fragility, still holds its place as a choice material for packaging a variety of products. Major users are milk and non-cocoa based milk foods, preserved fruits and vegetables, carbonated and alcoholic beverages, toiletries and pharmaceuticals. They combine attractiveness with hygienic and impermeable characteristics required for preserving the quality of the products. Total **Production** of glass bottles and vials amounted to about 153,300 tonnes in 1967-69 and the **Demand** in 1973-74 is estimated at nearly 250,000 tonnes.

Here again special varieties like thermal, shock-resistant and light weight glass are yet to be manufactured in India.

Jute and Wood : They are long established packaging materials which find extensive use in many applications. The **Estimated Demand** for jute in 1968-69 was 950,000 tonnes and in 1973-74 will be 6,090,000 tonnes. Jute has in recent years been facing serious competition from multi-wall paper sacks and plastic sacks more particularly on account of barrier properties. All the same jute industry is striving hard to impart protective properties to jute fabric by laminating with materials like plastics, paper, etc. Laminated jute bags are now the material of choice for the packaging of fertilizers, chemicals and the like.

Demand of wood is given in the table at the end of the chapter.

Ancillary Materials : The ancillary materials needed by the packaging industry are adhesives, cushioning materials, strapping materials, wire nails, printing inks, lining components, lacquers, solders, etc. etc. Most of these materials are now available in India and are used to advantage in the packaging field for improving the functional properties, attractiveness and transport-worthiness of the packages, while some synthetic resins and lacquer components for specialised applications, are still to be imported.

Packaging Machinery : It is in the field of packaging machinery that there is need for improvement, as lack of suitable machinery is impeding the productivity of industrial and consumer goods. Packaging machinery includes machines for production of basic packaging materials and for converting these into finished packages, machinery for filling and sealing, handling and storage, printing, testing, etc.

World Position : Table on next page gives comparison of India's status in this field, with that of some of the advanced countries.

Country	Population (millions)	G.N.P. billions US $	Packaging materials estimated sales billions of US$
U.S.A.	203·3	920·0	19·00
U.K.	56·2	91·0	1·80
W. Germany	59·6	136·7	2·70
Sweden	7·9	28·4	0·57
Switzerland	6·3	18·0	0·36
Japan	101·9	166·5	3·30
Australia	12·1	30·5	0·61
India	537·0	41·0	0·82
Brazil	90·9	25·9	0·52
Mexico	49·0	29·6	0·99

Another estimate shows the total value of output of the important packaging materials (metal, paper, plastics and glass) as follows :

Country	Value of total output of packaging materials (Rs. million)	Per capita expenditure on packaging Rs.
U.S.A.	80,400	460·00
U.K.	12,350	280·00
Japan	16,750	217·00
India	1,570	6·00

Indian Institute of Packaging : (Address: 254-C, Dr. A. Besant Road, Prabhadevi, Bombay-400025) Objects (*a*) conducting research and development of new materials and better use for existing materials (*b*) tendering consultancy services in the selection of the right type of packaging and (*c*) to train personnel in the field of packaging technology.

The United Nations Industrial Development Organisation has started devoting its attention to the problems of packaging in the developing countries. It has sponsored an ambitious expansion project for the Indian Institute of Packaging. This project envisages foreign exchange expenditure of US $580,000 to be borne by the UNIDO besides rupee expenditure of Rs. 9·3 million to be borne by the Government of India and the industry. The implementation of this project will mark the beginning of a big leap forward enabling the Institute to serve the industry in a much bigger way.

DEMAND ESTIMATES

Material	1968–69 (in tonnes)	1973–74 (in tonnes)
Tinplate	132,430	222,880
Aluminium Foils	4,149	7,573
Aluminium Slugs	1,365	2,320
Aluminium container sheets ..	1,731	3,052
Paper and allied products ..	181,465	406,565
Corrugated fibre board ..	48,000	92,000
Solid fibre board	3,280	15,100
Straw board	29,360	53,780
Cellophane film, bags and pouches	4,380	9,260
Polyethylene film	15,465	47,920
Polyethylene moulding ..	1,220	3,055
Polyethylene	539	1,243
Polyvinyl chloride	150	10,830
Thermoset resins	328	480
Glass	171,100	285,600
Jute	981,900	1,089,500
Wood	575,000 (cubic metres)	550,000 (cubic metres)
Plywood	12·7 mil. sq. metres	14·2 mil. sq. metres

PAPER INDUSTRY

BRIEF HISTORY

THE word paper comes from Papyrus a reed growing on the banks of River Nile in Egypt, yet the art of paper making is popularly known to have been invented by the Chinese as early as the third or second century before the Christian era. In India the tradition of making paper by hand can be traced only to the 8th Century A.D. Paper making was considered to be one of the premier domestic cottage industries before the commencement of the British rule. The still existing valuable

PRODUCTION AND CONSUMPTION

Industry	No. of Units	Capacity in tonnes	Production in tonnes 1971	No of Units	Capacity in tonnes	Production in tonnes 1972*
Paper & Paper Boards ..	59	882,000	77,459	59	924,000	313,338
Newsprint	1	75,000	40,081	1	75,000	42,048
Rayon Grade Pulp	2	87,000	53,994	3	123,000	72,776
Paper Grade Pulp	1	22,500	22,230	1	22,500	21,591

* Estimated.

manuscripts, official documents and rare miniature paintings stand as testimony to the durability and high quality of our indigenous paper made in ancient and mediaeval times. In India the first paper factory was started in Bengal in the latter half of the 18th century by a Christian missionary. The hundred years that followed never saw the laying of a firm foundation for the industry. It was only in 1867 that a real beginning was made when a modern paper mill was established at Bali in Bengal.

LOCATION OF THE INDUSTRY

There are 59 paper and paper board units in the private sector. The Statewise breakup is as follows :

Andhra Pradesh 2, Bihar 2, Gujarat 7, Haryana 4, Kerala 2, Madhya Pradesh 4, Maharashtra 13, Mysore 5, Orissa 3, Tamil Nadu 3, Uttar Pradesh 3 and West Bengal 11.

There are three rayon grade pulp units all in the private sector situated each in Kerala, Tamil Nadu and Mysore. One paper grade pulp factory is situated in Gujarat.

Public Sector : National Newsprint and Paper Mills Ltd., at Nepanagar, Madhya Pradesh is the only unit that produces newsprint in the country and is able to meet only 20 per cent of the demand.

Security Paper Mill at Hoshangabad, 45 miles from Bhopal, Madhya Pradesh, set up in 1968 in collaboration with a British firm manufactures annually 28,000 tonnes of special quality paper for currency and bank notes.

No. of Persons Employed : About 65,000. Number of mandays lost through strikes and industrial disputes during 1969 were 279,000.

Ranking in the World Market : India ranks 20th among the paper producing countries in the world.

There are about 36 paper mills in the small-scale sector producing about 64,500 tonnes of paper annually which is only 9 per cent of the total output.

The gap between the production capacity and utilization in India and those in other countries during 1968–69 are shown in the table below :

Country	Pulp Production ('000 tonnes)	Per Capita Consumption (kgs.)	No. of Paper Board Mills
U.S.A. ..	33,300	227·25	795
Canada ..	14,240	140·62	126
Japan ..	5,690	73·48	650
Australia ..	730	56·24	90
India ..	710	1·58	58

The bulk of the production comprises printing and writing paper. The table below shows the production trends of the main four items.

('000 tonnes)

Year	Installed Capacity (Total)	Production (Total)	Printing and Writing	Wrapping	Special Varieties	Boards
1969..	768	706·56	415·44	145·92	20·52	124·68
1970..	868	758·13	454·88	159·21	15·16	128·88
1971..	868	780·82	463·94	163·13	27·99	125·74
1972..	868	803·54	482·12	176·78	32·14	112·49

By-Products : There are 30 units manufacturing straw and mill boards. 7 manufacturing Carbon paper, 3 manufacturing duplicating stencils and one unit manufacturing cardiograph paper. One new unit manufacturing speciality papers such as tissues, foil lining, airmail etc., has been commissioned in 1972.

DEMAND BY 1975

The demand projection for all types of pulp by 1975 in India is about 2 million tonnes. The demand for various types of paper is given in the table below. These are based on the presumption that the population of the country will constantly show a rise of 2·4 per cent annually for the period 1965–75 reaching 625 million at the end of the decade.

Item	Per Capita (in kg.)	Total Demand
Writing & Printing Paper	1·63	1,018,750
Industrial Papers ..	0·87	543,750
Newsprint..	0·50	312,500
Total	3·00	1,875,000

It is estimated that there would be all-round increase of 62 per cent in the world demand for paper and paper products by 1975 as compared with 1960–62, a moderate rise (23 per cent) in North America, substantial growth (double or more than double) in Europe, Asia and America, and rapid increase of over two and half times in the U.S.S.R.

FOURTH FIVE-YEAR PLAN

The following targets of capacity and production have been recommended for the Fourth Plan by the Paper and Pulp Development Council.

(In tonnes)

Item	Capacity	Production
Paper and Paper Boards	1,130,000	960,000
Newsprint..	300,000	260,000
Paper Grade Pulp ..	150,000	120,000

The Planning Commission has accepted the target in respect of paper and paper boards. In the case of newsprint the target is 165,000 tonnes for capacity and 150,000 tonnes for production. No target indication is made in the Fourth Plan draft for pulp.

Crash Programme : In order to overcome the acute paper shortage in the country as well as to meet the Fourth Plan target the Ministry of Industrial Development and Internal Trade has set up a 'Crash Programme' which aims at an additional production of 130,000 tonnes of paper by the end of 1972–73. Fifteen applications by the existing units to expand their installed capacity through balancing equipment have been sanctioned which will provide an additional output of 100,000 tonnes. The Capital Goods Committee has sanctioned Rs. 80 million worth of foreign exchange for the import of balancing equipment.

In the private sector licences have been issued to set up 3 new units each with a capacity to produce about 70,000 tonnes of paper, 14 with a total capacity to produce 220,400 tonnes of paper and a unit in Himachal Pradesh to produce 60,000 tonnes of newsprint annually.

In the State sector letters of intent have been issued to (1) West Bengal Industrial Development Corporation to set up a small paper mill at Jhargram in Midnapore district. (2) Punjab Government to set up a unit in the bet area of the Ravi and the Beas rivers. (3) A joint venture of Assam and Bihar Governments in collaboration with a private party at Jogighopa in Goalpara district of Assam to produce 120 tonnes of pulp and 90 tonnes of paper per day. (4) Maharashtra Government to set up a newsprint plant in the co-operative sector near Sangli with a capacity of 200 tonnes per day. This will be the first newsprint factory in the country using bagasse as raw material.

Hindustan Paper Corporation Ltd. : Registered Office situated at B-20, Greater Kailash-1, New Delhi-110048 was established in June 1970 with a capital of Rs. 600 million to start four plants in the public sector to meet the growing paper need of the country. One of these plants will be located in the Nowgong District of Assam with a capacity of producing 80,000 tonnes of pulp and 50,000 tonnes of paper per year. Another plant will be located in Nagaland with 30,000 tonnes capacity to produce paper annually. The third plant will be set up in Kerala at Vellur near Vaiken in Kottayam district to produce 75,000 tonnes of newsprint per annum. The fourth plant will be set up in Cachar District of Assam to produce 75,000 tonnes of paper annually.

According to present projections, however, the units already planned and licensed will still not meet the future demand and the Government feels that an additional capacity of about 200,000 tonnes should be created now to meet part of the demand in the Fifth Plan period.

EXPORT AND IMPORT

While the total imports of newsprint, dissolving pulp, long fibre chemical pulp and certain paper products during the past few years range between Rs. 250 to Rs. 350 million annually, the paper industry in India has made some headway in the context of exports too. Presently exports in the line mainly comprise printing and writing paper (coated), kraft, packaging and cigarette papers which are of the order of Rs. 20–25 million annually. During 1960–70 export of paper and paper products stood at Rs. 48·8 million.

Exports and Imports during 1971-72.

Item	Value in Rs.	
	Export	Import
Newsprint..	—	275,852,335
Printing and Writing Paper	7,623,900	10,261,594
Kraft Paper and Kraft Paper Board	29,161	7,086,131
Cigarette Paper	1,545,347	28,145
Packing & Wrapping ..	194,412	1,191,407

Import Duties were raised on paper machinery from 10 per cent to 30 per cent in February 1971, thereby pushing up sharply costs of setting up paper mills. Paper is a highly capital-intensive industry and a mill with a capacity of 150 to 200 tonnes a day involves an outlay of about Rs. 250 million.

GENERAL

Hand-made paper : There are 314 units producing hand-made paper. There are 3,407 full-time workers, 558 part-timers and 149 casual hands in this industry. The output of hand-made paper in 1970-71 was 3,071 tonnes.

Paper Mill Plant : The planned development of the paper and pulp industry is dependent upon the indigenous manufacture of paper making machinery. Four such units are producing all the machinery required in the country, with an import content of 50 to 60 per cent. Besides these there are several other units categorised as ancillaries making only certain parts of the machinery.

Training : Paper technology is taught at (1) Birla Institute of Technology and Science, Pilani, Rajasthan (Degree); (2) Forest Research Institute, Dehra Dun, Uttar Pradesh (Diploma); (3) Institute of Paper Technology, Saharanpur, Uttar Pradesh (Diploma and Certificate).

Research : Forest Research Institute, Dehra Dun, Uttar Pradesh is the only well-equipped research body. However, many large mills conduct research for their own requirements.

Some Large Units :

Name and registered address of the Mill	Location	Paper and Paper Boards capacity, tonnes/yr.
Andhra Pradesh		
Sirpur Paper Mills Ltd., Sirpur-Kaghaznagar	Kaghaznagar	40,000
Andhra Pradesh Pulp & Paper Mills Ltd., Rajamundry	Rajamundry	45,000
Bihar		
Rohtas Industries Ltd., Dalmianagar	Dalmianagar	60,000
Haryana		
Ballarpur Paper & Straw Board Mills Ltd., 124, Janpath, NewDelhi 110001	Yamunanagar	46,000
Madhya Pradesh		
Orient Paper Mills Ltd., 15, India Exchange Place, Calcutta 700001	Amlai (Sahdol)	75,000
Maharashtra		
Ballarpur Paper & Straw Board Mills Ltd., 124, Janpath, New Delhi 110001	Ballarpur	69,000
Mysore		
West Coast Paper Mills Ltd., Shreenivas House, Waudby Road, Bombay 400001	Dandeli	45,000
Orissa		
Orient Paper Mills Ltd., Brajrajnagar (Sambalpur Dist.)	Brajrajnagar	70,000
Tamil Nadu		
Seshasayee Paper & Board Ltd., P.O. Cauvery (Salem Dist.)	Pallipalayam, Erode	35,000
Uttar Pradesh		
Star Paper Mills Ltd., Bajoria Palace, 27, Brabourne Road, Calcutta 700001	Saharanpur	39,200
West Bengal		
Bengal Paper Mills Ltd., 14, N. Subhas Road, Calcutta 700001	Raniganj	50,000
Titaghur Paper Mills Co., Ltd. Chartered Bank Bldgs., Calcutta 700001	(1) Titaghur (2) Kakinada	65,000
Newsprint :		
National Newsprint and Paper Mills Ltd., Nepanagar, Madhya Pradesh	Nepanagar	75,000
Pulps :		
1. *Rayon Grade*		
Gwalior Rayon Silk Mfg. Co. Ltd., P.B. No. 37, Kozhikode, Kerala	Mavoor	60,000
South India Viscose Ltd., Race Course, Coimbatore 641018 Tamil Nadu	Coimbatore Dist.	22,500
Harihar Polyfibres Ltd. Harihar, Mysore	Harihar	36,000
2. *Paper Grade Pulp*		
Central Pulp Mills, 1183, Shivaji Nagar, Ferguson College Road, Pune 411005, Maharashtra.	Songadh, Gujarat	22,500

Raw Material : Besides bamboo, which is now extensively used for paper making, the need for tapping other sources has been felt. These are sugarcane bagasse, tropical hardwood, coniferous woods, jute sticks and cereal straws. Chemicals required for this process are already being made indigenously.

PETRO-CHEMICAL INDUSTRY

THE hydro-carbon building blocks for the manufacture of a large group of organic chemicals and intermediates finding functional applications in plastics and resins, synthetic rubber, synthetic fibre, agro chemicals, dyestuffs, pharmaceuticals and innumerable organic intermediates, are either the family of olefin hydro-carbons (ethylene, propylene, butadiene) or the family of aromatic hydro-carbons (benzene, toluene, xylene). Traditional sources of such raw materials—mainly fermentation alcohol derivatives from sugar molasses—will be barely sufficient to supply more than one-third of the Fourth Plan requirement of ethylene and can not meet demand for any of the raw materials—propylene and butadiene. Coal carbonisation plants, the traditional sources of benzene and xylene, will be adequate to meet only 30 per cent of the total quantity required in the Fourth Plan. The alternate source for these hydro-carbon building blocks is petroleum-based raw materials (natural gas and naphtha).

India's demand for plastics, synthetic fibres, synthetic detergents and raw materials for the manufacture of agrochemicals, dye-stuffs, pharmaceuticals and other innumerable organic intermediates has been increasing at a very rapid rate and the potential for future growth, particularly in the context of substantial imports of these and other materials such as ferrous and non-ferrous metals, industrial fibres like cotton and wool, vegetable oil, rubber, paper etc. which can be substituted technically and economically by the synthetic chemical, is tremendous.

GROWTH

The first integrated petro-chemical complex was commissioned in India by **Union Carbide India Ltd.** in December, 1966. This is located in Trombay and its 60,000 tonnes per annum naphtha cracker unit draws supply of naphtha from the neighbouring ESSO Refineries. The establishment of the second naphtha cracker was also in Bombay (Thana) by **National Organic Chemical Industries Ltd.** This unit inaugurated in January, 1968 is designed to process 225,000 tonnes of naphtha per year obtained through a pipeline across the Thana creek from the Burmah-Shell Refineries. The third naphtha cracker with a likely throughput of 455,000 tonnes per annum is planned to be set up by **Indian Petro-Chemicals Corporation** near Vadodara. The supply of naphtha is proposed to be drawn from the adjacent Gujarat Refineries at Koyali. Indian Petro-chemicals Corporation will also utilise a special fraction naphtha of 120,000 tonnes per annum from the Gujarat Refineries for producing aromatic chemicals (o-xylene, p-xylene and mixed xylenes) by catalytic reformation and isomerisation and 453,000 tonnes of naphtha per annum for the production of a number of olefin streams. In addition, for the time being, the IPCL is also taking preliminary steps to implement the refinery-cum-petro-chemical complex in Assam and a polyester filament yarn unit in Gujarat.

The Gujarat Refineries started the operation of their Udex plant in December, 1968, for the production of benzene and toluene.

A new Rs. 50 million plant set up by **Nagpal Ambadi Petro-Chem. Refining Ltd.** has gone on stream in September 1971, for the manufacture of a variety of special petroleum products.

The estimated demand for various basic organic chemicals by 1973-74 and the existing approved capacities are indicated below :

(In Tonnes)

Item	Production requirements by 1973-74	Approved capacity
Benzene	139,600	100,000
Toluene	16,000	18,500
Xylene		
(*a*) Mixed	3,000	3,000
(*b*) Ortho	25,000	21,000
(*c*) Para	17,000	17,000
Ethylene	215,650	230,000
Propylene	87,600	105,000
Butadiene	52,000	52,000

MAJOR USES AND TARGETS

The major uses of such synthetic chemicals have been studied in detail to establish the rate of growth of consumption as set out in the Fourth Plan.

(a) Thermoplastic: Plastics represent one of the most dynamic sectors of the petro-chemical industry. The wide range of plastic material available today, their versatile applications, low cost, large number of processes by which they can be converted into different end-products and almost unlimited supply of raw materials from petroleum feed-stocks are some of the major factors contributing to a very impressive growth in the demand throughout the world.

During the recent years, **production** of plastics has surpassed that of non-ferrous metals like zinc, copper and aluminium in many countries. The plastics today are the biggest outlet for petro-chemicals.

In India, as in many other developing countries, the main applications of plastics are in the consumer goods, packaging and to a limited extent in the building industry. The industrial and engineering applications have been very much limited because of inadequate availability of suitable plastic materials. **The demand** at the end of the Fourth Plan is expected to reach about 200,000 tonnes as indicated below :

(In Tonnes)

Item	Production requirements by 1973-74	Approved capacity
PVC resins	80,000	86,400
Polyethylene (low density) ..	58,000	59,092
Polyethylene (high density)..	30,000	20,000
Polystyrene	35,000	17,500
Polypropylene	7,000	15,000

(b) Synthetic Fibres: India imports every year over Rs. 1000 million worth of cotton, wool, manilla, sisal and synthetic fibres to meet the present domestic demand of the established textile industry for manufacture of cloth, knitted garments, blankets, tyre cord and other industrial cordage for manufacture of ropes, tents, camouflage nets, nursery nets, fishing nets, industrial filter cloth and industrial fabrics, carpets etc. The important petro-chemical based synthetic fibres, the manufacture of which has been conceived in India, are polyester, polyamide and acrylic fibre. The production programme is as follows:

(In Tonnes)

Item	Production requirements by 1973-74	Approved capacity
Nylon filament, tyre cord and other industrial yarns ..	29,000	26,000
Polyester filament staple fibre	22,000	30,500
Acrylic fibre	12,000	11,500

(c) Synthetic Rubber: The consumption of natural and synthetic rubber has been increasing steadily commensurate with the increase in production of automobile tyres and tubes, bicycle tyres and tubes, conveyor and other industrial belting, hoses, etc. The Fourth Plan demand for all types of rubber has been estimated at about 175,000 tonnes per annum. **Domestic production** of natural and reclaimed rubber is targeted to reach 115,000 tonnes leaving a deficit of 60,000 tonnes. At present, there is only one synthetic rubber plant manufacturing SBR with a capacity of 30,000 tonnes per annum. The deficit of 30,000 tonnes per annum is proposed to be made up by the production of 20,000 tonnes of high cis polybutadiene and 10,000 tonnes of SBR. The possible increase in the production of SBR rubber by maximum utilisation of the existing plant and machinery is being pursued. It is proposed to set up a second synthetic rubber unit for the manufacture of high cis polybutadiene as one of the downstream units of the Gujarat Petro-chemical complex.

(d) Synthetic Detergents: A significant quantity of vegetable oil is used in the manufacture of soaps. There has been a steady shortfall between the domestic production and consumption of vegetable oils resulting in substantial imports. A major proportion of the vegetable oils used in the manufacture of soaps can be substituted by synthetic detergents. The production requirements of detergent alkylate for Fourth Plan have been set at 12,500 tonnes per annum.

(e) Miscellaneous Chemicals: The manufacture of synthetic plastics, fibres, rubbers etc. require a large number of other chemicals such as caprolactum, acrylonitrile, dimethyl terephthalate, chlorinated hydrocarbons, alkylene oxides, alcohol, 2-ethyl hexanol, phthalic anhydride etc. The Fourth Plan production requirements for some of these chemicals related with the growth of petrochemical industry in India are indicated below :

(In Tonnes)

Item	Production requirements by 1973-74	Approved capacity
Acetic acid	36,800	17,300
Acrylonitrile	18,200	24,000*
Caprolactum	34,000	20,000
Carbon black	60,000	59,000
DMT	26,000	24,000
Ethanolamines	2,500	5,900
Ethylene oxide	17,500	12,000
Maleic anhydride	4,000	6,000
Octanol	23,000	9,600
Phthalic anhydride ..	24,000	18,600
Propylene oxide (derivatives)	5,000	—
T.D.I.	2,500	—

* Yet to be approved.

PETROLEUM INDUSTRY

BRIEF HISTORY

REAL foundation of oil industry in the public sector was laid only during the Second Plan period (1956–61) when the Government of India launched a planned programme of exploration, production refining and distribution. The Oil and Natural Gas Commission was set up in 1956. It was only after success in exploration that the Government of India decided to create a Ministry of Petroleum and Chemicals in 1963.

Oil exploration had been started by Assam Oil Company/Burmah Oil Company and their associates as early as the last decade of the 19th Century, confined to the Upper Assam region. From 1949 to 1960 the Standard Vacuum Oil Company explored the West Bengal Basin first alone and then with the Government of India as the Indo-Stanvac Petroleum Project.

The sedimentary areas exist practically all over the country covering 1·04 million sq. kms. Even offshore areas along the Indian coast like the Gulf of Cambay and Kutch; off the coasts of Gujarat and Maharashtra, off Coromandal, in the Palk Straits and the Gulf of Mannar; around the mouths of the Ganges and the Mahanadi, areas off Kerala, Andamans and Nicobar Islands are said to be oil bearing.

EXPLORATION

There are three agencies doing exploration work — the Oil and Natural Gas Commission (ONGC), the Assam Oil Company and the Oil India Ltd. — of which the ONGC, a public sector undertaking is the principal one.

The Assam Oil Company and the Oil India Ltd., operate within the areas allotted to them in Assam State while the Oil and Natural Gas Commission is responsible for exploration over the remaining parts of the country.

OIL AND NATURAL GAS COMMISSION

It has its headquarters at Dehra Dun. About 22,000 persons are employed on its staff.

Geological and geophysical surveys are carried out by the Commission in various parts of the country. On the basis of results of these surveys, drilling has been in progress in a number of States of the Indian Union, particularly in Gujarat and Assam. As a result of this, oil and gas have been found in a number of areas of which the most important are at present the Cambay gas field, the Ankleswar, Kalol and Nawagam oil fields in Gujarat, and the Rudrasagar and Lakwa oil fields in Assam.

After exactly a year of drilling by the ONGC off the Gulf of Cambay oil was struck on 19th March, 1970, whether oil can be produced in commercial quantities will be known after tests are completed.

During 1970–71 the ONGC struck gas at Dabka, a new structure in Gujarat and stepped up the production from the north Gujarat fields. The number of wells drilled and completed by the Commission from its inception upto November 1972 was 991, of which 602 were oil/gas bearing, 26 were under water injection and 96 were under test.

Off-shore Operations: By the end of 1973 the ONGC will commence exploratory drilling on certain off-shore structures beginning with **Bombay High,** the oil-bearing region in the Arabian sea, 112 kms. north-west of Bombay. According to initial estimates Bombay High had a 2,000 sq. kms. oil rich structure, expected to yield 80 to 100 million tonnes of oil.

Iran Off-shore Venture: Exploration for oil in the waters of the Gulf of Persia was taken up for which the ONGC floated a subsidiary company called **Hydro Carbons (India) Pvt. Ltd.,** (D-35, South Extn. Part II, New Delhi 110049) which holds ¼th share in a company called the Iranian Marine International Oil Co. IMINOCO. The other constituents of this company are: National Iranian Oil Company; AGIP of Italy and Phillips of the U.S.A.

The **Rostam** field went into production in August, 1969. In the first year of production Hydro Carbons (India) Pvt. Ltd. received 131,185 tonnes of crude oil of which 70,438 tonnes was sold to CEPSA, Madrid (Spain), 15,029 tonnes to Cochin Refineries Ltd., Cochin, and 45,718 tonnes to Total International Ltd., Bermuda. It fetched $1,267,374·96 (Rs. 9·6 million) for the country.

IMINOCO has discovered another field called **Raksh** to the north east of Rostam.

On-Shore Operation: Spudding in the first well at Tripura was achieved by the end of 1971 after sophisticated equipment purchased abroad had been received.

During the period April–December 1970 the Commission drilled 70 wells with a total meterage of 128,393 in Gujarat, Assam, Rajasthan and the Cauvery Basin. This takes the number of wells drilled from 1956 to December 1970 to 862 of which 478 are oil-bearing, 66 gas bearing, 21 water injection and 214 dry wells. 83 wells are still under test.

OIL INDIA LTD.

(H.O. Duliajan, Upper Assam): Next to ONGC this is the other major oil producing organisation. It was set up with a 50:50 partnership of the Government of India and Burmah Oil Company†. It holds mining leases over an area of 1,321 sq. kms. and petroleum exploration licences over an area of 1,219 sq. kms. in north-east India.

During 1972 the company drilled 1 exploratory well and 10 development wells bringing the number drilled up to December 1972 to 307 development and 16 exploratory with a total meterage of approximately 989,978 and 71,007 respectively.

The company plans to maintain 3 million tonne crude production per year. The production of crude for calendar year 1972 was 3·18 million tonnes. Of this the company supplied 3·15 million tonnes to Indian Oil Corporation's refineries at Gauhati and Barauni and the Assam Oil Company's refinery at Digboi.

ASSAM OIL COMPANY

(Digboi, Assam): The Assam Oil Company was formed as a result of the merger of the Assam Railway and Trading Company and the Assam Oil Syndicate. It has drilled 998 wells upto December, 1970 out of which 384 are in operation now. The present rate of production of Assam Oil Company is of the order of 0·11 million tonnes.

PRODUCTION

ONGC, Oil India Ltd., and Assam Oil Company are also the only three agencies doing production work. During the period April to November 1972, the Commission supplied 285·3 million cubic metres of associated and non-associated gas to various consumers.

Production of crude oil (In Thousand tonnes)

	1969	1970	1971	1972
Quantity ..	6,723	6,809	7,185	7,373
Percentage increase over previous year	+ 14·8	+ 1·3	+ 5·5	+ 2·6
Refinery Crude throughput:				
Quantity ..	17,495	18,459	19,589	19,672
Percentage increase over previous year	+ 8·7	+ 5·5	+ 6·1	+ 0·4

Price Policy: The new pricing policy of the Government which came into effect from 1st June 1970 maintains that in addition to the eight main ports all the inland refineries be made pricing points, thereby bringing down the cost of petroleum products in the areas near the refineries.

The supplemental report of the Oil Prices Committee concerning prices of lube base stocks produced indigenously and lubricants/greases was submitted to government on 31st July, 1970. It is under examination.

CONSUMPTION

All India Consumption of Petroleum Products.*

('000 tonnes)

Product	1969	1970	1971	1972@
Motor Gasolene	1,330	1,411	2,687	2,919
Naphtha ..	665	837		
Kerosene ..	3,036	3,262	3,457	3,504
High Speed Diesel ..	3,465	3,735	4,221	4,615
Light Diesel Oil	1,030	1,047	1,190	1,383
Furnace Oil (Regular) ..	3,200	3,495	3,760	4,160
Furnace Oil (all grades)	4,428	4,651	4,974	5,543
Bitumen ..	658	751	948	1,120
Lubricants ..	502	535	563	581
Aviation Fuels	677	750	—	—
Liquid Petroleum Gas ..	126	166	202	238
Others ..	412	444	1,248†	1,451†
Refinery Boiler Fuel ..	999	1,147	1,150	1,210
Total ..	17,328	18,734	20,640	22,564
	+ 9·5	+ 8·1	+10·2	+ 9·3

* *Source*: Ministry of Petroleum & Chemicals Report.
† Including Aviation Fuels. @ Estimated.

DISTRIBUTION

Petroleum products are distributed through a wide distribution net-work in all parts of India. At present the major oil distributing companies are Indian Oil Corporation (wholly owned by the Government), Burmah-Shell, Esso, Caltex and Assam Oil. These companies obtain their products from the refineries in India and also import certain amount of products for distribution.

INDIAN OIL CORPORATION LTD.

(Regd. Office: 254-C, Dr. Annie Besant Road, Prabhadevi, Bombay 400025). The Indian Oil Corporation comprises two divisions *viz.* Refineries Division and Marketing Division.

Refineries & Pipelines Division (Indianoil Bhavan Janpath, New Delhi) is responsible for the management of the three public sector refineries at Gauhati in Assam, Barauni in Bihar and Jawaharnagar in Gujarat. Also manages Gauhati-Siliguri, Haldia-Barauni-Kanpur and Jawaharnagar-Ahmedabad pipelines.

Marketing Division with its headquarters in Bombay is responsible for distribution of petroleum products produced by three refineries of IOC and two other public sector refineries at Cochin and Madras.

Started in 1960 it became the largest marketing organisation by 1968. Its market participation in 1971-72 was 54·2 per cent as against 52 per cent in the previous year. In 1971-72 the Corporation sold about 13·68 million kilolitres of petroleum products.

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† But subsequently Burmah Oil Co. agreed to reduce its equity in Oil India Ltd. by 10 per cent.

INDO-BURMA PETROLEUM COMPANY LTD.

(Allahabad Bank Building, 17, Parliament Street, New Delhi 1). It became a subsidiary of the IOC after the Corporation purchased 579,400 ordinary shares from Messrs. Steel Brothers & Co. The IBP has a total of one million equity shares of Rs. 10 each. It markets motor gasoline and diesel oil of the IOC refineries.

The company has also diversified into manufacture of sophisticated electronics equipment (both medical and industrial) and special purpose machinery. In 1972 the company took over the management of Balmer Lawrie Group of Companies.

Indian Oil International Ltd.: A wholly-owned subsidiary of the IOC was registered at Kathmandu, Nepal on June 11, 1970 as a foreign company for the sale of Indian Oil products within the territory of Nepal. It has a market participation of 65 per cent.

Indian Oil Blending Ltd.: IOC has a 50 : 50 joint venture with Mobil Petroleum Corporation of U.S.A. to operate two lube blending plants in Bombay and Calcutta and a grease manufacturing plant in Bombay.

REFINERIES

There are 9 refineries in operation and two under construction. Of these four are in the private sector — Burmah Shell Refineries, Esso, Caltex and the Assam Oil Company — and are owned by foreign private oil companies.

The other five — Gauhati, Barauni, Koyali, Cochin and Madras — are in the public sector. The refineries at Gauhati, Barauni and Koyali are owned by the Indian Oil Company whilst Cochin and Madras by two separate refinery companies.

Total Throughput: The total throughput of the nine refineries in 1970 was 18·5 million tonnes — 11·0 million tonnes in the public sector and 7·5 million tonnes in private sector.

Private Sector: The Digboi Refinery of the Assam Oil Company produced a total of 0·46 million tonnes of petroleum products in 1970. Its annual throughput during 1970 was 0·49 million tonnes.

The throughput of the three private sector refineries during 1970 was : Burmah-Shell 3·45 million tonnes ; Esso 2·35 million tonnes ; Caltex 1·18 million tonnes.

BURMAH-SHELL REFINERIES LTD.

It commenced operations at Trombay on January 30, 1955. The crude oil intake is at present about 3·75 million tonnes per annum ; it comes from the Persian Gulf area.

The Refinery manufactures motor spirit, kerosene, aviation turbine fuel, high speed diesel oil, light diesel oil, jute batching oil, fuel oil, bitumen, liquefied petroleum gas, special boiling point solvents, refinery gas, aviation gasoline, naphthas, mineral turpentines, Carbon black feedstock, hot heavy stock and cutbacks.

The total cost of the Refinery was about Rs. 260 million and the total number of employees engaged in the various categories at present is around 1,260.

CALTEX OIL REFINING (INDIA) LTD.

Located at Visakhapatnam its products include Petrol, Aviation Jet Fuel, Liquefied Petroleum Gas, Mineral Turpentine, Kerosene, Diesel Oils and Fuel Oil from the Refinery's two-stage crude oil distillation unit, the fluid catalytic cracking unit with gas recovery facilities, and the propane decarbonisation unit and treating and blending plants. Other products such as Petroleum Naphtha and Asphalt are also manufactured.

The Refinery is capable of processing over 1·5 million tonnes of crude oil per annum.

ESSO STANDARD REFINING COMPANY OF INDIA LTD.

It is situated at Trombay near Bombay and was built at the cost of Rs. 175 million. The refinery is capable of refining 3·5 m. tonnes of crude oil per annum.

Initially, the Refinery was designed to process 1·25 million tonnes of Middle East crude and to manufacture six fuel products. In its 15 years of operation, the capacity has been increased and new products such as asphalt, jute batching oil, solvents and liquefied petroleum gas have been introduced to meet the growing needs of the country, thereby saving considerable foreign exchange.

Public Sector: The first public sector refinery at **Gauhati** in Assam was commissioned in January 1962. The Rumanian Government have provided the necessary technical and financial assistance for the refinery.

The second public sector refinery at **Barauni** in Bihar was commissioned in the second half of 1964. The initial capacity of two million tonnes has been expanded to three million tonnes since Jan. 1969. The foreign exchange cost and technical assistance for the Barauni refinery was met out of the Soviet credit.

The third public sector refinery has been constructed at **Koyali** near Vadodara in Gujarat and was commissioned in October 1965. Its initial capacity was two million tonnes and has been increased to three million tonnes since September 1967. The technical assistance and financial assistance has been supplied by the Soviet Union.

COCHIN REFINERY

(P. Box 1751, Cochin 682016, Kerala). This is a participatory refinery project in the public sector, the principal collaborators with the Government being Messrs. Phillips Company, U.S.A. It was commissioned on 19th Sept. 1966.

The Refinery has been designed to produce annually 2·5 million tonnes of petroleum products.

The expansion programme of the refinery is expected to be completed by the middle of 1973. This programme envisages increasing the processing capacity from 50,000 barrels per stream day to 70,000 barrels. The present investment is Rs. 280 million.

Managing Director: Glandale Betz ; *Manager, Tech. Operations:* F. W. Fulton.

MADRAS REFINERIES LIMITED

(Regd. Office and Refinery : Manali Madras 600068 : A joint venture of the Government of India (major shareholder), National Iranian Oil Company, Amoco India Incorporated, U.S.A., the Madras Refinery is designed to process 2·5 million tonnes per annum of Darius crude oil from Persian Gulf, Iran (50,000 barrels per calendar day). Products : Motor Gasolene, Superior Kerosene, Naphtha, High Speed Diesel Oil, Light Diesel Oil, Lube Base Stocks, Jet Fuel, Furnace Oil, Liquid Petroleum Gas, Asphalt and Sulphur.

The authorised capital of Madras Refineries Limited is Rs. 135 million.

Chairman: M. Rama Brahmam ; *Managing Director:* Dr. M. S. Nadkarni.

Refineries Under Construction: The IOC is constructing three more refineries one at **Haldia,** West Bengal with a capacity of 2·5 million tonnes a year. Its fuel section is expected to be completed by the end of 1973 and the lube section by May 1974. The second refinery will be at **Bongaigaon** in Goalpara district of Assam with a capacity of one million tonnes per annum. It would be on stream by 1975. The third refinery will be set up at Mathura, Uttar Pradesh with a capacity of 6 million tonnes per annum. This would be the biggest refinery in the country and is expected to go on stream by 1978.

RESEARCH

Research is being conducted in all phases of the petroleum industry. The ONGC has set up the Institute of Petroleum Exploration at Dehra Dun with the help of the U.N. for research and training in the exploration and production phases of the industry.

The Indian Institute of Petroleum in Dehra Dun was set up under the control of the Council of Scientific and Industrial Research to conduct research and training in the refining and marketing phases of the industry.

Allied Companies :

ENGINEERS INDIA LTD.

(PTI Building, 4, Parliament Street, New Delhi 110001). Registered in 1965 in collaboration with Bechtels, U.S.A., it become a wholly owned Indian company in June 1967. It provides engineering and consultancy services for the expansion and planning of refineries, petrochemical and fertiliser plants.

Chairman and Managing Director : M. S. Pathak.

LUBE INDIA LTD.

(Administration Building, Corridor Road, Mahul, Bombay 400074). A 50 : 50 partnership between the Government of India and ESSO. Designed to produce 147,000 tonnes per year of lube base and 17,000 tonnes per year of transformer oil feed stocks, the Refinery went on stream in December 1969. During the startup year 1970 and 1971 the Refinery produced 58 per cent and 90 per cent of designed capacity, respectively.

Managing Director : E. D. Gray.

LUBRIZOL INDIA LTD.

(Thana-Belapur Road, Turbhe, Thana, Maharashtra).

A 51 : 49 equity holding of the Government of India and The Lubrizol Corporation, U.S.A.

In the first phase the plant was to produce 6,000 tonnes of chemical additives per year. Production was started in November 1968. With the success of the first phase the company is now implementing the second phase, the installation of basic chemical processes, utilising indigenously manufactured chemical raw materials.

Chairman : Dr. M. G. Krishna ; *Managing Director :* V. H. Pandya.

EXPORTS OF PETROLEUM PRODUCTS

Qty. : '000 tonnes Value : Rs. million

Products	1969		1970		1971		1972*	
	Q.	V.	Q.	V.	Q.	V.	Q.	V.
Motor Gasoline	118	24·7	38	08·2	141	21·2	4	08·4
Naphtha	518	63·2	315	38·2				
High Speed Diesel	67	09·9	46	05·8	7	01·7	89	67·3
Furnace Oil	8	00·6	3	02·2	4	02·6	16	13·7
Asphalt	24	06·4	10	02·7				
Total	735	104·8	412	57·2	152	25·5	109	89·4

* Including re-exports.

IMPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS

Quantity : '000 tonnes Value : Rs. million

Item	1970		1971		1972	
	Q.	V.	Q.	V.	Q.	V.
1	2	3	4	5	6	7
Product Group						
1. Light Distillates	23·0	10·0	72·5	37·4	68·4	20·4
2. Middle Distillates	327·3	76·4	876·4	210·5	1,302·9	280·2
3. Others	619·8	218·9	983·0	187·0	1,892·7	267·1
Total (1 + 2 + 3) ..	970·1	305·3	1,931·9	434·9	3,264·0	567·7
4. Crude Oil	11,665·3	1,023·6	12,687·7	1,398·8	12,310·1	1,440·1
Grand Total	12,635·4	1,328·9	14,619·6	1,833·7	15,574·1	2,007·8

Under a new trade agreement signed with Iraq, India will import one million tonnes of crude oil initially from Iraq which will also finance setting up of a refinery in India based on this supply.

SHIPPING INDUSTRY

BRIEF HISTORY

THE earliest evidence of shipping and ship-building activity is found in the archaeological remains of Mohen jo-daro, in the Indus Valley, dating back to some 3000-5000 B.C. Ever since the shipping and ship-building industry has passed through various periods of vicissitudes.

At the time of the country's independence in August, 1947, India had only 48 coastal vessels with 119,000 GRT (gross tonnage) and 11 foreign-going vessels with 73,000 GRT.

Position Today : As on May 15, 1973, India's GRT stood at 2·667 million comprising 261 ships. Firm orders have already been placed for 86 ships of 2·133 million GRT. The anticipated scrappings during 1972-73 is expected to be about 0·212 million GRT.

Tonnage Carried by Indian Ships: In the liner trades Indian ships are estimated to be carrying a share of 40 to 45 per cent of the overall Indian-Foreign trade but in the tramp and bulk carrier trade their share is estimated to be about 10 per cent.

Ranking in the World : Indian merchant fleet by the total GRT occupies the 16th position in the world.

SHIPBUILDING INDUSTRY

(See chapter on Government Industrial Undertakings where details of Hindustan Shipyard, Mazagaon Docks, and Garden Reach Workshops are given).

Merchant Fleet in Operation : On 1st April, 1972, the total merchant fleet consisted of 258 ships of 2,520,410 GRT. The changes that have taken place since then up to 31st December, 1972, are indicated below :

	COASTAL		OVERSEAS		TOTAL	
	No.	GRT	No.	GRT	No.	GRT
As on 1st April 1972	62	217,603	195	2,302,817	257	2,520,420
Acquisition	+ 4	+ 14,662	+ 8	+135,214	+12	+149,876
Scrapping	− 7	− 31,083	− 4	− 22,354	−11	− 53,437
As on 3rd December 1972 ..	59	201,182	199	2,415,677	258	2,616,859

TRAINING INSTITUTIONS

Shri Narotam Morarji Institute of Shipping : At Calicut Street, opp. Fort Market. Bombay 400001 has been functioning since April, 1969. It imparts training and conducts examinations on matters pertaining to the commercial side of shipping — chartering, ship broking practice, marine insurance etc.

Merchant Navy Training Board : At Jahaz Bhavan, Walchand Hirachand Marg, Bombay 400001, advises the Government on all matters pertaining to the training of merchant navy personnel.

The Government of India has set up six training establishments for the training of merchant navy officers and ratings. The Training Ship. **"Dufferin"** now replaced by T. S. **"Rajendra"** provides pre-sea training course of two years for navigating cadets. The new training ship has an intake of 125 cadets, 45 cadets more than the old one. The **Directorate of Marine Engineering Training** provides a four years' course for engineering cadets. The boys desirous of undergoing training in the two institutions are drawn from all parts of the country through All India Competitive Examination followed by interview and medical and eyesight test.

Rules for Entry into T.S. **'Rajendra'** and D.M.E.T. are as follows: **Age Limit :** A candidate must have completed 16 years of age and must not have exceeded 18 years on January 1 of the year of entry. **Eligibility :** A candidate is eligible, provided he has passed (1) the higher secondary examination either (*a*) in the science stream with chemistry, mathematics and physics as elective or optional subjects, or (*b*) in the technical stream, or (2) the pre-university examination with some science group or any equivalent examination, or (3) the Indian School Certificate Examination, or (4) the first year examination of the Inter-Science or F.Sc. course both again with the same elective subjects.

The present intake in D.M.E.T. is 100 cadets per annum.

The Lal Bahadur Shastri Nautical and Engineering College at Hay Bunder, Tank Road, Bombay 400033, provides post-sea instructional courses for both navigating and engineering cadets and apprentices who are preparing for Ministry of Transport Certificate of Competency Examinations. There is a Life Boat School attached to the college.

Ratings Training Establishments : The Training Ship **"Bhadra"** (Calcutta), **"Mekhala"** (Visakhapatnam) and **"Naulakhi"** (Navlakhi-Gujarat) are ratings' training establishments. These institutions provide a six months' course for deck and engine ratings. Candidates between the age group 18 to 22 with minimum educational qualification of 8th standard pass are eligible for admission, if medically-found fit. An advertisement is published in all important newspapers in India in different languages once in a year or when necessary for selection of candidates for pre-sea training courses and they are selected on merits after an interview at Bombay by the Director, Seamen's Employment Office and at Calcutta, Navlakshi and Visakhapatnam by the respective Captain Superintendents of the training ships according to the number required each year.

Recruitment of Seamen : Seamen's Employment Offices were set up in Bombay in June, 1964, and Calcutta in March, 1965, to regulate the supply of seamen to foreign-going vessels on the principle of rotation.

Seamen's Welfare : The seamen's welfare offices at the ports of Bombay, Calcutta, Madras and overseas at Sydney, London, Liverpool and Glasgow take care of the welfare of Indian seamen. The Principal Seamen's Welfare Officer at London has the additional duties of finding jobs for Indian seamen on foreign-owned ships. His jurisdiction is entire Europe.

FOURTH PLAN

The Fourth Plan target for shipping 4 million GRT with 3·5 million GRT in operation and 0·5 million GRT on order at the end of the plan period i.e. 31st March 1974. As against this, the operative tonnage of 2·6 million has already been achieved and ships aggregating about 1·5 million GRT are under construction or on order.

During the mid-term appraisal of the Fourth Plan, it was decided to take advance action in respect of the Fifth Plan for placing orders for 0·88 million GRT. Hence the total target works out to 4·88 million GRT.

Inland Water Transport : In order to harness all possible modes of transport for easier and faster movement of goods the Government is considering the development of inland water transport system. If the 36 main proposals made by the expert committee under the chairmanship of Mr. B. Bhagwati in its report submitted on October 1970, are to be implemented the expected outlay would be Rs. 124·22 million during the Fourth Plan and Rs. 148·90 million during the Fifth Plan period. The scheme is being studied by the Government.

SMALL-SCALE INDUSTRY

Definition : The official definition of a small-scale industry includes all industrial units with a capital investment of not more than Rs. 750,000 irrespective of the number of persons employed. Capital investment for this purpose means investment in plant and machinery only.

Ancillary Industries : Capital ceiling on ancillary industry has been placed at Rs. 1 million in order to make this important sector more efficient. For this purpose a unit which produces parts, components, sub-assemblies and tooling for supply against known or anticipated demand of one or more large units manufacturing or assembling complete products and which is not a subsidiary to or controlled by any large unit in regard to the negotiation of contracts for supply of its goods to any large unit, is considered an ancillary unit.

Priority Industries : Manufacturers of the following items are accorded priority from the capital goods angle :

Motor cycle, scooters, mopeds and bicycles (including parts); Agricultural machinery and implements including harvestors; Pumps, compressors, industrial fans and blowers; Industrial and mining machinery (other than those specified in key industries); Pipes, pipe fittings; Internal combustion engines; Industrial furnaces; Ball and roller bearings; Power cables and telephone cables and busbars; Storage batteries, dry batteries; Construction equipment; Cranes; Industrial fasteners; Link chains; Commercial vehicles including jeeps and three wheelers; Trawlers, fishing boats, harbour crafts and ancillaries; Tele-communications equipment, wireless and TV transmission and radar equipment; Radio receivers and TV sets; Wagons, shunters and locomotives; Industrial refrigeration equipment and ancillaries; Fire engines, crash tenders and other fire-fighting equipment; Non-ferrous semis and alloys; Electric lamps and lamp components, including miniature lamps; Essential organic and inorganic heavy chemicals; Dyestuff intermediaries; Photographic films, stores and paper; Paper; Synthetic detergents; Tyres and tubes; Industrial explosives; Industrial gases; Refractories, fire-bricks and insulators; Leather and leather-goods industries including footwear Industrial alcohol; Enamels; Packaging industry; Man-made fibre; Matches; Food processing industries; Vegetable oils; Ion-exchange resins; Coal carbonization and coal-tar distillation; Cement; Electric insulating materials; Asbestos Products; Electrodes; Watches and Time-pieces; Ready-made garments.

Reserved Industries : Following is the list of industries reserved exclusively for development in the small-scale sector :

Absorbent Cotton; Automobile Radiators (except for expansion on merits); Barbed Wire; Beam Scale; Bichromates (except for exports); Bolts and Nuts (except high tensile and other special type); Conduit Pipes — Metallic; Domestic Electric Appliances and Accessories such as electric iron, roasters, heaters, washing machines etc., other than vacuum cleaners, industrial washing and dry-cleaning machines etc.; Dyes—(*i*) Azo Dyes (directs and acids) and (*ii*) Basic Dyes; (*a*) Electrical Wiring Accessories, (*b*) Electrical light fittings (such as chokes, starters, reflectors etc.); Expanded Metal; Fireworks; Formulated Perfumery Compounds; Full P.V.C. Footwear (chappals, sandals and shoes), except for export by predominantly export-oriented units; Glass Holloware by semi-automatic process; Gun Metal Bushes; Hand Numbering Machines; Hand Stapling Machines; Hurricane Lanterns; Hypodermic Needles; Insecticide Dusters and Sprayers (Manual); Laundry Soap; Leather Footwear (except for expansion of the existing units for exports and new units for exports); Machine screws (except for socket head and special types); Machine Shop Vices; Metal Clad Switches upto 30 Amps; Miniature Bulbs—(*a*) Miniature Vacuum Bulbs, (*b*) Torch Bulbs, (*c*) Radio Panel Bulbs, (*c*) Cycle Dynamo Bulbs, (*e*) Decoration Bulbs; Paints and Varnishes — Dry Distempers, Red Lead, Red Oxide, Aluminium Paints, Bitumen Paints to ISI specifications, Wagon Blocks, Graphite Paints, all Paste Paints; Palm Rosa Oil; Paper Conversion Products; Pine Oil (except for composite schemes); Plaster Boards; Plastic Processed Products—(*i*) Bottle Caps, Buttons, Lamp-shades etc., produced by the compression moulding technique; (*ii*) Plastic articles manufactured from plastic sheets, rods or tubes by the fabrication technique excluding the technique of vacuum forming; (*iii*) Polyethelene Films (Films with a thickness of less than 0·10 mm) and products from the film such as coloured printed film and bags; (*iv*) Blow moulded containers and other similar products manufactured by the blow moulding technique (except for captive use, PVC containers and change-over by existing units manufacturing metal containers to plastic containers); (*v*) Spectacle frames from sheets by fabrication technique or by injection moulding; (*vi*) Manufacture of polyester sheets for buttons and the processing of the sheets so produced to manufacture buttons; rivets of all types (including bifurcated); Rolling Shutters; Roofing, Flooring and Glazed Tiles (except plastic ceramic tiles of sizes 4″ × 4″ and above); Safety Matches; Steel Wool; Student's Microscopes; Surgical Gloves (except Plastic); Telescopic Aerials (for radio receivers); Thermometers (upto 150°C); Water Meters; Welded Wire Mesh (except for expansion of existing units); Wire Brushes and Fibre Brushes; Wire Products — all Wire products such as Wire Nails, Hob Nails, Panel Pins, Horse Shoe Nails; Wood Screws; Cycle Tyres and Tubes; Electric Horns; Hydraulic Jacks below 30 tonnes capacity; Tooth Paste; Pressure Die Castings (upto 4 kgs.); Drums and Barrels (upto 50-litre capacity); Tin Containers-underprinted (other than CTS cans), upto 18-litre capacity; Flash Light Torch Cases (Plastic); Truck Body Building (Wooden structure); Battery Cell Tester; Pressure Gauges (upto 50 lbs. per sq. inch); Low Tension Insulators; A.A. & A.C.S.R. Conductors (upto and including 19 strands); Electric Transmission Line Hardware (other than those manufactured in malleable castings); Grease Nipples and Grease Guns; Exhaust Mufflers; Zinc Oxide; Auto Leaf Springs; Chaff Cutter Blades; PVC & VIR Wires of Domestic Type; Metal Fittings for garments and leather goods; Weights; Sodium Silicate; Fuel Lines; Fuel Tank Caps; Wiring Harness; Tail Lamp Assembly; Side Lamp Assembly; Step Lamp Assembly; Spot Lamp Assembly; Horn Buttons; Bulb Horns; Seats for buses and Trucks; Ornamental fittings; Rear View Mirrors; Sun shades; Sun Visor; Luggage Carrier; Tyre inflators (both hand and foot-operated); Ash trays; Hub Caps; Wind Shield Wipers (Arms and Blades only); Electrical fuses; Electrical fuse boxes; Battery cables and fittings; Spokes and Nipples; Steering Wheels.

REGISTRATION :

No licences, either from the Central or from the State Governments, are required for starting a small unit, but they are subject to the rules and regulations framed by the State and Local authorities under the Factories Act, Commercial Establishments Act, and Town Planning Act. Rules of the health and sanitation authorities are also applicable.

To get loans from the commercial banks or State Financial Corporations, or for any other governmental assistance, it is essential that the unit be registered with the State Director of Industries.

FACILITIES :

Following additional benefits can also be availed of if a unit is registered.

1. Assistance in obtaining controlled and imported raw material.
2. Electrical power.
3. Accommodation in Industrial Estates.
4. Training facilities.
5. Supply of machinery on hire-purchase basis.
6. Accommodation in Industrial Centres.
7. Preference in Government Purchase Programmes.
8. Priority in telephone connections.

STATE FINANCIAL CORPORATIONS

Following are some of the State Financial Corporations, with their addresses, which are authorised to give loans to medium and small industries and also disburse government funds :

Andhra Pradesh State Financial Corporation, Chapel Rd., Gun Foundry, Hyderabad 500004; Assam Financial Corporation, Gleherquart House, Shillong; Gujarat State Financial Corporation, 5th Floor, Gujarat State Co-op. Marketing Society's Bldg., opposite Relief Cinema, Relief Rd., Ahmedabad 380001; Bihar State Financial Corporation, Fraser Rd., Patna; J. & K. State Financial Corporation, P.W.D. Bldg., Nehru Market, Jammu (Tawi); Kerala Financial Corporation, Vellayambalam, Trivandrum 695001; Madhya Pradesh Financial Corporation, Shiv Vilas Palace, Rajwada Chowk, Indore; Madras Industrial Investment Corporation, 38, White Rd., Royapettah, Madras 600014; Maharashtra State Financial Corporation, United India Bldg., Sir P. Mehta Rd., Bombay 400001; Mysore State Financial Corporation, No. 7, First Main Rd., Gandhi Nagar, Bangalore 560009; Orissa State Financial Corporation, Killa Maidan, Cuttack; Punjab Financial Corporation, 72/73, Sector 17-B, Bank Square, Chandigarh; Rajasthan Financial Corporation, Surya Niwas, C-18, Bhagwandas Rd., Jaipur City; U.P. Financial Corporation, 7/154, Swaroop Nagar, Kanpur; West Bengal Financial Corporation, 23, Rajendra Nath Mukerjee Rd., Calcutta; Delhi State Financial Corporation, Saraswati House, Connaught Place, New Delhi.

NATIONAL SMALL INDUSTRIES CORPORATION LTD.

An autonomous agency started by the Central government for the promotion of small industries.

The headquarters of the Corporation is in New Delhi and has branch offices in Calcutta, Bombay and Madras.

There are three Prototype Development and Training Centres at New Delhi, Rajkot and Howrah.

Their addresses with the area covered by each office is given below :

Head Office : NSIC Ltd., near Industrial Estate Okhla, New Delhi. All India plus U.P. Punjab, Haryana, Rajasthan, Delhi, Himachal-Pradesh and J & K.

Branch Offices : NSIC Ltd., Prestige Chambers, Kalyan St., Chinch Bunder, Bombay 400009 — Maharashtra, Goa, Gujarat and Madhya Pradesh.

NSIC Ltd., 20, British Indian St., Calcutta 700001 — West Bengal, Bihar, Assam, Orissa, Manipur, Tripura, Andaman & Nicobar Islands.

NSIC Ltd. 123, Mount Rd., Madras 600006 — Tamil Nadu, Andhra Pradesh, Kerala, Mysore and Pondicherry.

Prototype Development and Training Centres : Near Industrial Estate, Okhla, New Delhi 110020.

Ajit Industrial Estate, Bhavnagar Rd., Rajkot 360002.

Baltikuri, Howrah, 711101, (West Bengal).

SPECIALISED SERVICES :

Technical Advisory Service; Workshop and Laboratory services; Economic services; management consultancy services; marketing advisory service, managerial and technical training service and other general services which are far too expensive to be privately obtained are given free by the Central Small Industries Organisation.

Addresses of the **Small Industries Service Institutes** are as follows :

Andhra Pradesh, Suvarna Vilas, No. 3-4-812, Barkatpura, Hyderabad; *Assam,* Ind. Estate, P.O. Bamunimaidan, Gauhati; *Bihar,* Prasad Mansion, Rajendra Path, Patna 800001; *Gujarat,* Dudheshwar Rd. Opposite Ruston Jahangir Vakil Mills, Ahmedabad; 1/5, Jaganath Plot, Rajkot (Branch Institute) *Jammu & Kashmir,* D-1, Gandhi Nagar, Srinagar, Jammu (Branch); *Kerala,* Krishna Vihar, Verma College Rd., Trichur 680004; *Madhya Pradesh,* 10, Industrial Estate, Polo Ground, Indore; *Tamil Nadu,* 65/1, Grand Southern Trunk Rd., Madras 600032; *Maharashtra,* Kurla-Andheri Rd., Saki-Naka Bombay 400070; *Mysore,* Rajaji Nagar Bangalore 560010; *Orissa,* Mahanadi Rd., Tulsi Para, Cuttack; *Punjab,* Ind. Area 'B', Ludhiana; *Rajasthan,* Mirza Ismail Rd., Jaipur; *Uttar Pradesh,* 107, Ind. Estate, Kalpi Rd., Kanpur; 121, M. Gandhi Rd., Agra (Branch Institute); E-17/18, Ind. Estate, Naini, Allahabad (Branch Institute); *West Bengal,* 111, & 112, B.T. Rd., (Calcutta 700035; *Delhi,* Okhla Ind. Estate, Okhla, New Delhi; *Goa (Branch),* Miranda Bldg., Margao.

STATE CORPORATIONS :

Almost all the States have their own Corporations to assist small industries. The addresses of some of them are:

The Assam Small Industries Development Corporation Ltd., Industrial Block, Gauhati;

The Bihar State Small Industries Corporation Ltd., S.P. Varma Rd., Patna 800001 ;

The West Bengal Small Industries Corporation Ltd., 45, Ganesh Chandra Ave., Calcutta 700013 ;

The Kerala State Small Industries Corporation Ltd., Pattom Kaudiar Rd., Trivandrum 695001 ;

The Gujarat Small Industries Corporation Ltd., Ambica Niwas, Ashram Rd., Navrangpura, Ahmedabad ;

The Madhya Pradesh Laghu Udyog Nigam Ltd., Bhopal ;

The Mysore Small Industries Corporation Ltd., Administrative Office Bldgs., Ind. Estate, Rajaji Nagar, Bangalore ;

The Punjab State Small Industries Corporation Ltd., P.B. No. 11, Chandigarh ;

The Uttar Pradesh Small Industries Corporation Ltd., 14/40 Civil Lines, Kanpur ;

The Madras State Small Industries Corporation Ltd., Khaleel Mansion, 35/2, Woods Rd., Madras 600002 ;

The Rajasthan Small Industries Corporation Ltd. K-18, Durga Dass Path, Malviya Marg, 'C' Scheme, Jaipur ;

The Andhra Pradesh Small-Scale Industrial Development Corporation Ltd., B-1-174, Fateh Maidan Rd., Hyderabad 500004 ;

The Maharashtra Small-Scale Industrial Development Corporation Ltd., Bombay Life Bldg., 5th Floor, 45, V. Nariman Rd., Bombay 400001 ;

The Orissa Small Industries Corporation Ltd., P.B. No. 85, Killamaidan, Cuttack 753001 ;

The Haryana State Small Industries & Export Corporation C/o Director of Industries, Govt. of Haryana, Chandigarh.

Magnitude of the Sector : The number of units estimated to be under SSIDO programme in 1970, were 400,000. Registration (1969) with Directors of Industry stood at about 282,000 providing employment to 3·67 million people, producing goods worth Rs. 48,600 million and having an investment of Rs. 6,970 million.

Industrial Estate : Factories numbering 6,366 were working in 9,739 sheds (out of the 10,758 constructed by 30-9-72) having an annual production of Rs. 1,620 million and giving employment to 104,132 people.

Plan Provision for Small-Scale Industries : Small-scale Industries programme is estimated to be Rs. 444 million, Rs. 663 million and Rs. 1,042·5 million in II, III and IV Plans respectively. Industrial Estates Programme is estimated at Rs. 116 million, Rs. 226 million, and Rs. 190·8 million during the same periods.

STEEL INDUSTRY

BRIEF HISTORY

ALTHOUGH India occupied a pre-eminent position in iron and steel making in the ancient world, the industry on modern lines is only sixty years old. It came into existence with the launching of the Tata Iron and Steel Works at Jamshedpur, Bihar in 1907. Before this, a number of attempts were made in different parts of India to start the industry by both private companies and the Government, but none of these was even moderately successful.

The Jamshedpur steel works went into operation by stages in 1911-12. In 1919 Indian Iron and Steel Company established a unit near Asansol, West Bengal. Meanwhile the first unit in the public sector was put up in Mysore on the banks of river Bhadra. Production in Mysore Iron and Steel Works began in 1923.

Upto the end of second world war these three were the only main units in India producing 1.7 million tonnes of pig iron and a million tonnes of steel ingots annually. As this production was not enough to meet the whole of India's growing needs, after the independence the Government of India decided to put up three large units in the public sector under the Hindustan Steel Ltd. and also encouraged the expansion of the existing units.

Holding Company. The Steel Authority of India Ltd. was set up under the Companies Act on 24th January, 1973, to provide comprehensive framework of an organisation to ensure co-ordinated development of both the private and the public sectors.

The following companies will become subsidiaries of SAIL :

Hindustan Steel Ltd. ; Bokaro Steel Ltd. ; Salem Steel Ltd. ; National Mineral Development Corporation ; Bharat Coking Coal Ltd. ; Hindustan Steelworks Construction Ltd. ; Manganese Ores Ltd. ; Bolani Ores Ltd. ; (For personnel see "Ministry of Steel & Mines" in Central Government list).

Private Sector

Tata Iron and Steel Company Ltd., (Head Office: Bombay House, Bruce Street, Bombay 1.) produces a variety of semi-finished and finished steel items like blooms, billets, tin bars, skelp, rails, structurals, plates and sheets.

The Government has entrusted to Nippon Steel of Japan to give a feasibility report on doubling the plants capacity from 2 million tonnes of ingot a year to 4 million ingot tonnes. Against the installed capacity of 2 million tonnes the Company produced 1·708 million tonnes of steel ingots in 1971-72 and 1·690 million tonnes in 1972-73. In terms of saleable steel this amounts to 1·387 million tonnes in 1971-72 and 1·458 million tonnes in 1972-73.

Indian Iron & Steel Company Ltd., (Head Office: 12, Mission Row, Calcutta 1) has a rated capacity of one million tonnes of steel ingots. It manufactures billets, bars, rods, rails, structurals and sheets.

The decline in the production forced the Government to take over management for two years from 14th July, 1972.

The production of ingot steel during 1971-72 was 617,000 tonnes and during 1972-73 431,157 tonnes. In terms of saleable steel this amounts to 493,000 tonnes and 351,024 tonnes respectively.

Public Sector

Besides the steel plants at **Bhilai** (Madhya Pradesh), **Rourkela** (Orissa) and **Durgapur** (West Bengal) which come under Hindustan Steel Limited there is the **Bokaro Steel Ltd.** in Bihar which is being constructed with the help of the Government of USSR since 1966. The agreement was signed on January 25, 1965. The first blast furnace complex was commissioned on October 3, 1972. Upto the end of February 1973, 240,157 tonnes of pig iron has been produced. The entire complex is expected to be completed by 1977-78.

There is also the Mysore Iron and Steel Ltd. at Bhadravati, Mysore.

PRODUCTION

The target of production of steel ingots for 1972-73 was 7·2 million tonnes for the five main producers, as against the actual production of 5·8 million tonnes in 1971-72. The actual production of steel ingots during 1972-73 amounted to 6·1 million tonnes.

(In million tonnes of ingot steel)

	Rated Capacity	1970-71		1972-73	
		Production	% of full rated capacity	Production	% of full rated capacity
1. Hindustan Steel Ltd.					
Bhilai Steel Plant	2·5	1·940	77·6	2·108	84·3
Rourkela Steel Plant ..	1·8	1·038	57·6	1·117	65·3
Durgapur Steel Plant ..	1·6	0·634	39·6	0·723	45·1
TOTAL	5·9	3·612	61·2	4·008	67·9
2. Tata Iron & Steel Co. Ltd. ..	2·0	1·715	85·8	1·690	84·5
3. Indian Iron & Steel Co. Ltd.	1·0	0·627	62·7	0·431	43·1
GRAND TOTAL ..	8·9	5·954	66·9	6·129	68·8

Production of Saleable Pig Iron

(in '000 tonnes)

Year	Bhilai	Durgapur	Rourkela	TISCO	IISCO	Total	MISL	Bokaro	Others	Grand
1970-71	554	330	96	1	253	1,234	30	—	56	1,320
1971-72	476	269	127	2	211	1,085	54	—	91	1,230
1972-73†	550	280	73	—	27	930	41	308*	92	1,371

* Oct. '72 — March '73. † Provisional.

Production of Finished Steel — Producer-wise

(In '000 tonnes)

Year	Bhilai	Durgapur	Rourkela	TISCO	IISCO	MISL	Others	Total
1970-71 ..	1,215	337	593	983	464	24	1,272	4,888
1971-72 ..	1,030	337	561	1,002	449	44	1,538	4,961
1972-73* .. (April-Dec.)	1,099	231	483	706	213	42	1,100	3,874

* Provisional.

Production of Finished Steel — Category-wise

(In '000 tonnes)

Category	1970-71	1971-72	1972-73* (April-Dec.)
Lt. & Med. Structurals ..	641·7	512·0	458·8
Heavy Structurals ..	238·3	192·9	152·1
Heavy Rails			
(*i*) 1st Class	243·7	259·7	203·4
(*ii*) 2nd Class	145·4	109·6	49·8
Light Rails	5·5	6·4	1·8
Black Sheet (Corr.) ..	—	0·7	0·3
B.P. Sheets			
(*i*) Hot Rolled ..	212·4	219·1	181·9
(*ii*) Cold Rolled ..	85·2	96·1	69·1
G.P. Sheets	72·9	57·7	45·9
G.C. Sheets	117·2	108·9	59·9
Plates	271·4	274·9	229·3
Bars	1,055·7	1,153·8	903·7
Rods	517·6	562·8	501·7
Wires			
(*i*) Black	48·5	81·2	73·2
(*ii*) Galvd	34·8	52·1	41·5
(*iii*) Others	52·3	90·9	6·0
Hoops Strips	6·6	8·2	6·0
(*i*) Hot Rolled ..	91·6	105·6	103·9
(*ii*) Cold Rolled ..	100·1	102·5	69·2
Box Strappings	6·7	5·1	1·7
Steel Sleepers	58·8	67·7	37·7
Tinplates	133·4	114·5	84·2
Skelp	242·6	232·7	176·2
Wheels, Tyres & Axles ..	37·5	32·0	22·1
Special Sections	57·5	75·4	41·9
Tool, Alloy and Special Steels	410·9	438·5	299·8
TOTAL	4,888·3	4,961·0	3,874·0

* Provisional.

Production of Tool Alloy and Special Steel

(in tonnes)

	1971-72	1972-73
Canara Workshops Ltd. Mysore ..	2,834	2,097
Firth Sterling Steel Co. of India Ltd. Maharashtra	985	951
Globe Motors (P) Ltd. New Delhi	4,306	12,866
Guest Keen, Williams Ltd. W. Bengal	35,095	38,234
Alloy Steel Project, Durgapur ..	35,006	35,851
Hindustan Steel Ltd.	94,530	99,792
Indian Iron & Steel Co. W. Bengal	Nil	N.A.
Lasco Steel Ltd. Madras	85	Nil
Mahindra Ugine Steel Co. Ltd., Maharashtra	32,561	28,391
Mysore Iron & Steel Ltd. Mysore..	52,052	41,184
Singh Engg. Works Ltd. (U.P.) ..	—	N.A.
Tata Iron & Steel Co. Ltd. Bihar..	173,698	161,592
J.K. Iron & Steel Co. Ltd., Kanpur	78	N.A.
Krishna Steel Ind. (P) Ltd., Bombay	Nil	Nil
Mukund Iron & Steel Works Ltd., Bombay	2,939	2,580
The National Iron & Steel Co. Ltd. Calcutta	159	300
Textool Co. Ltd., Coimbatore ..	395	398
Himmat Steel Foundry (M.P.) ..	1,769	N.A.
Upper India Steel, Punjab ..	2,043	6,125
TOTAL	438,535	430,361

Distribution : The new procedure has done away with quotas and ceilings for booking of orders by actual users on the steel plants through the Joint Plant Committee. After the sale/works order is issued by a producer, if priority in despatch is required, the party has to apply to the Steel Priority Committee through the Joint Plant Committee giving details. The Steel Priority Committee would then consider all demands and allocate steel every quarter.

Requirements in small quantities for industries, private citizens and public institutions are generally met from stockyards. Accordingly, the distribution policy for steel materials from producers' stockyards had been amended since March 1, 1971. After providing for distribution of small tonnages allocated to specific parties by the Steel Priority Committee, the amended scheme had earmarked 20 per cent of total arrivals of prime quality materials in the stockyards for allottees of State Directors of Industries.

For compact industry groups like bright bar industry, wire drawing industry, tube mills and fabricators of electric lamination, the stockyards have prepared a list of consumers in consultation with Directors of Industries, materials suitable for these industries are given to them after meeting Government demands and requirements of the building trade.

EXPORTS

Because of the restrictive export policy since 1970-71 there has been a drastic reduction in exports. During 1971-72 only 420·1 thousand tonnes were exported earning a revenue of Rs. 254·8 million. During April 1972 to February 1973 exports amounted to 371·3 thousand tonnes valued at Rs. 156·6 million.

Category-wise Exports of Iron and Steel During 1971-72

Category	Quantity ('000 tonnes)	Value (Rs. million)
Pig Iron	218·1	74·38
Ingots	—	—
Billets	—	—
Rails	90·0	79·98
Structurals	106·7	95·83
Rounds/Rods	4·5	3·76
G.C. Sheets	0·8	0·92
TOTAL	420·1	254·8

Scrap Exports : Only Cast Iron Borings, Iron Skull scrap and Broken/Semi Broken ingot mould and Bottom Plate scrap are allowed to be exported. Following table gives the exports for the past three years.

Year	Quantity (in tonnes)	Value (in Rs. million)
1970-71	260,905	69·50
1971-72	146,028	19·95
1972-73 (Apr.-Sept.) ..	35,683	5·22

IMPORTS

During 1971-72 the total value of licences issued for imports of iron and steel amounted to Rs. 2,464·60 million. The value of actual imports was Rs. 2,447·90 million. The total quatity imported was 1·38 million tonnes.

Licences issued during April 1972 to December 31, 1972 amounted to Rs. 1,483·90 million. The actual imports during April/August 1972 were 0·579 million tonnes valued at Rs. 961·80 million.

The following table gives the imports for the last three years.

Year	Quantity (in tonnes)	Value (in Rs. million)
1970-71	706,088	1491·8
1971-72	1,382,139	2447·9
1972-73 (Apr.-Aug.) ..	579,338	961·8

The break-up of the imports during 1971-72 (April-Sept.) into various categories of steel is as under :

Imports of Iron and Steel — 1971-72

	Quantity (in tonnes)	Value (Rs. Million.)
Pig Iron/Ferro Alloys ..	8,140	29·80
Cast Iron	1,240	7·80
Mild Steel	1,086,399	1,683·00
High Carbon Steels ..	173,803	330·30
Alloy Steels	87,736	339·90
Steel Casting & Forgings	6,394	39·60
Iron & Steel Scrap ..	18,427	17·50
TOTAL	1,382,139	2,447·90

Research : The National Metallurgical Laboratory at Jamshedpur, Bihar since its inception in 1950, has been orienting its research and development programme to suit the requirements of the metal and mineral-based industries and also to meet the broad-based requirements of the country particularly in these areas. To a considerable extent, the National Metallurgical Laboratory has succeeded in the implementation of the techniques and innovations developed, thereby paving the way for the establishment of new industries, minimising the imports — by developing substitute metals and providing indigenous skill and talents in many areas where hitherto dependence on foreign know-how was necessary.

Training : Graduate courses in Metallurgy are available in several universities. For details see the chapter on Education.

Mini Steel Plants : During 1970 and 1971 the Government had issued 19 letters of intent. Under the new policy the industry was delicensed in 1966 and brought back within the scope of Industrial licensing from February 1970.

WOOLLEN INDUSTRY

BRIEF HISTORY

THE woollen industry is one of the few manufacturing sectors which has made rapid strides in recent years. Although the first unit was set up more than a century ago, there was no significant expansion till the beginning of the fifties. From hardly 16 units in the organised sector of the industry in 1950, there are now 102 mills in the country with an installed capacity of 204,818 spindles.

The Indian Woollen Industry comprises of an organised sector and a wide range of decentralised sectors. The latter represents the traditional handicraft skills in design and execution as a domestic industry and the former represents the modern sophisticated production techniques and management.

LOCATION OF THE INDUSTRY

State-wise Distribution of Installed Capacity in 1970

Organised Mills

State	Number of Mills			Installed Capacity					
				Spindles					
	Spinning	Composite	Total	Worsted	Shoddy	Woollen	Others	Total	Power looms
1. Gujarat	—	2	2	9,140	—	5,230	—	14,370	167
2. Jammu & Kashmir ..	5	1	6	9,118	—	2,018	—	11,136	18
3. Madhya Pradesh ..	1	—	1	—	—	876	—	876	—
4. Maharashtra	10	9	19	53,232	11,952	4,788	—	69,972	562
5. Mysore	1	1	2	—	—	100	11,124 (Union)	11,224	182
6. Haryana	9	1	10	1,104	940	8,911	—	10,955	18
7. Punjab	19	21	40	46,959	4,311	27,751	60	79,081	682
8. Rajasthan	6	—	6	—	672	1,895	—	2,567	—
9. Uttar Pradesh ..	7	1	8	9,672	2,848	11,895	—	24,415	250
10. West Bengal	1	3	4	6,512	240	1,380	—	8,132	93
11. Delhi	2	—	2	864	—	648	—	1,512	—
12. Himachal Pradesh ..	1	—	1	—	1,600	—	—	1,600	—
13. Bihar	1	—	1	—	—	768	—	768	—
	63	39	102	136,601	22,563	66,260	11,18	236,608	1,972

Public Sector : Out of the 102 organised units there are only 3 units in the public sector, the names and addresses of which are as follows :

1. Rajasthan Government Worsted Spinning Mills, Churu, Rajasthan ;
2. Kashmir Government Woollen Mills, Shirinbaugh, Srinagar, Jammu & Kashmir;
3. Government Spinning Mills, Nowshera, Srinagar, Jammu & Kashmir.

No. of Persons Employed : There are over 100,000 persons employed directly in the industry.

Capital Investment : The national figure is approximately Rs. 9·9 million.

PRODUCTION

India's 42 million sheep produce annually about 31·75 million kgs. of raw wool. About 50 per cent of the raw wool produced in India is below 40s count and a substantial part of this low quality is exported and the rest is used for the manufacture of coarser apparel and floor covering, etc.

The following table gives the overall picture of production of tops, yarn and fabrics :—

(Qty. — million kgs.)

		1969	1970
I.	Worsted yarn		
	(*a*) Weaving	2·55	2·75
	(*b*) Hosiery	0·97	1·13
	(*c*) Knitting	0·96	0·94
II.	Shoddy yarn	4·49	5·16
III.	Woollen yarn	4·77	4·89
IV.	Carpet and other yarns ..	5·13	4·70
	Total I to IV	18·87	19·57
V.	Wool top		
	(*a*) Out of imported wool	7·90	8·39
	(*b*) Out of Indian wool ..	2·97	2·03
	Total V	10·87	10·42
VI.	Woollen/Worsted fabrics		
	(*a*) Wearables (mil. meters) ..	12·63	13·37
	(*b*) Non-wearables (mil. kgs.)	4·23	4·32
	Total VI ..	16·86	17·69

Sheep Population and Production of Raw Wool and Wool Tops of some of the Important Wool Producing Countries.

Country	Approx. Sheep Population (in millions) 1968–69	Approx. Output of Raw Wool (in million kgs.) 1969–70	Approx. Output of Wool Tops (in million kgs.) 1969
Argentina ..	45·0	183·70	—
Australia ..	174·6	917·61	20·14
France	9·7	19·95	98·38
Germany (West)	—	—	43·50
Italy	8·6	14·51	77·33
Japan	—	—	147·41
New Zealand ..	59·9	335·67	N.K.
U.K.	26·8	51·71	92·03
U.S.A.	21·2	90·71	60·96
U.S.S.R. ..	140·6	391·00	—
Total (including other countries)	958·0	2,783·24	636·40

Source : Wool Statistics of Commonwealth Economic Committee
N.K. = Not Known.

EXPORTS

Indian woollen goods account for two per cent of the country's total exports. The net foreign exchange earned under this sector is estimated to be around Rs. 120 million.

EXPORTS OF WOOL & WOOLLENS

(Rs. million)

S. No.	Commodity	1970–71	1971–72
1.	Raw Wool	4·18	3·66
2.	Shoddy Wool & Waste ..	·02	—
3.	Wool Tops..	·09	·01
4.	Woollen/Worsted Yarn ..	—	—
5.	Woollen/Worsted and Knitting Wool Mixed Fabrics	2·96	2·86
6.	Woollen Hosiery	11·94	13·83
7.	Woollen Readymade Garments	2·23	1·82
8.	Woollen Blankets.. ..	·24	·21
9.	Shawls and Lohis.. ..	·27	·14
10.	Carpets Druggets and Numdahs	10·30	11·07
	TOTAL	32·23	33·60

Export Incentives : The measures initiated by the Government to boost exports included (1) higher replenishment of raw wool against exports of woollen goods (2) lifting of ban on export of worsted/woollen yarn manufactured from imported wool (3) abolition of export duty on raw wool (4) grant of additional raw materials to units which export more than 10 per cent of their production.

Wool and Woollen Export Promotion Council

Address : Churchgate Chambers, 5, New Marine Lines, Bombay-400020.

IMPORTS

The production performance of the woollen industry is heavily dependent upon imported raw wool and wool tops. The industry was allotted Rs. 120 million of foreign exchange during 1969–70. However, the industry supplemented its raw material requirements by way of National Defence Remittance licences and export promotion entitlements.

The trend in imports of raw wool during 1967–68 to 1970–71 was as follows (Quantity in million kgs. and value in million Rs. respectively) : 1967–68 : 11·92, 113·27 ; 1968–69 : 12·15, 104·68 ; 1969–70 : 18·40, 165·18.

Import Policy: Since November, 1967, all imports of wool either for domestic consumption or for export purposes are canalised through the State Trading Corporation. The 20 per cent share earmarked for the worsted sector is distributed to mills in the organised sector on the basis of their installed and recognised spindleage. The balance of 80 per cent is distributed to various sectors in the proportion of 55 per cent for weaving, 27 per cent for hosiery and 18 per cent for knitting. Units in the decentralised sector get a direct allotment of wool.

GENERAL

Combing capacity in the industry needs to be expanded to meet the demands. Though the present capacity is about 18·14 million kgs. only 13·61 million kgs. was really effective. The combing requirement in terms of quantity works out to about 20·41 million kgs. There is a clear gap of about 6·8 million kgs.

Newly set up **Gujarat Sheep and Wool Development Corporation** at Krishi Bhavan, Alice Bridge, Ahmedabad, will help the industry to produce quality wool by a cross-breeding programme for upgrading local sheep through regular supply of acclimatised exotic rams. To a great extent this will reduce imports of quality wool and improve prospects of self-sufficiency.

International Wool Secretariat at 41 New Marine Lines, Bombay-400020, is a non-commercial non-profit organisation with headquarters at London. Financed by subscriptions from the largest wool producing concerns round the world it helps the Indian Woollen Industry in all its problems such as economic, research, planning etc.

Research : Central Sheep and Wool Research Institute at Malpura (88 kms. from Jaipur) in Rajasthan, is run by the Indian Council for Agricultural Research and is partly aided technically and financially by F.A.O. Situated on a 1,618 hectares farm, its main programme is research and training facilities in sheep husbandry, better utilisation of land, wool shearing, grading, testing, technology and processing. It also trains key personnel, instructors, supervisors, managers and research workers.

Two sub-stations for sheep rearing and cross breeding are run by the Institute, one at Kulu (H.P.) and the other at Kodaikanal (T.N.).

Wool Research Association at the VJTI Institute, Bombay 400019, is set up by the industry in collaboration with CSIR. It mostly deals with research on wool yarn and fibre and its application to different commodities, improvement of the quality of fabrics etc.

Training : Wool technology diploma course is conducted by the VJTI Institute under the guidance of the Wool Research Association.

Association : Indian Woollen Mills' Federation, Churchgate Chambers, 5, New Marine Lines, Bombay-400 020.

Some Large Units : With their addresses and the number of powerlooms in brackets.

1. Bombay Fine Worsted Manufacturers, Castle Mills, Agra Road, Thana, Maharashtra (170).
2. The Raymond Woollen Mills Ltd., J. K. Building, Morarjee Marg, Ballard Estate, Bombay-400 001, Maharashtra (196).
3. Binny Ltd. (Bangalore Woollen, Cotton & Silk Mills Co. Ltd.), Agraharam Road, Bangalore-560023, Mysore (182).
4. New Egerton Woollen Mills Ltd., (British India Corporation Ltd.), Dhariwal, Punjab (230).
5. Cawnpore Woollen Mills Ltd., Civil Lines, Kanpur, Uttar Pradesh (250).
6. Shree Digvijaya Woollen Mills Ltd., Aerodrome Road, Jamnagar-361003, Gujarat (87).

Raw Material : The average yield of sheep in India works out at about 0·90 kg. as against over 4 kgs. in Australia.

FIFTH FIVE-YEAR PLAN

According to the report of the Working Group during the Fifth Plan the following expansion schemes have been proposed.

64 per cent expansion in installed capacity of worsted spindles ; 34·5 per cent for powerlooms ; 155 per cent for shoddy spindles and 45 per cent for combing sector.

This means the installed spindleage would go up from the present 204,818 to 337,000. Of the proposed expansion priority units would account for 30,000, combing units 33,000, backward areas 38,000 and decentralised units 31,000.

The expansion in the **powerloom sector** would be from 3,867 looms to about 5,200 looms.

The estimated production of **worsted yarn** at the end of the Fifth Plan would rise to 30 million kgs., of which weaving yarn would be 16·5 million kgs., hosiery yarn 8·0 million kgs. and grey hand knitting yarn 5·5 million kgs.

The **shoddy sector** would expand from 24,491 spindles to about 63,300 spindles. The production of shoddy yarn from the expanded capacity would be 14 million kgs.

In the **woollen spindles** sector the expansion would be from 80,491 to 85,491 and the estimated production of woollen and carpet yarn from these would be 19 million kgs.

Publications : 'Wool and Woollens of India' Churchgate Chambers, 5, New Marine Lines, Bombay-400 020. (Monthly).

SOME CENTRAL GOVERNMENT ENTERPRISES

FOLLOWING list shows the names of Central Government enterprises, with the year of incorporation and classified according to the ministries under which they fall. Further details of some Central and State Corporations and undertakings follows this list.

Ministry of Agriculture

	Name	Year of incorporation/registration
1.	Banana & Fruit Development Corporation Ltd.	1964
2.	Central Fisheries Corporation	1965
3.	Central Warehousing Corporation	1956
4.	Food Corporation of India	1965
5.	Indian Dairy Corporation	1971
6.	Modern Bakeries of India Ltd.	1965
7.	National Seeds Corporation Ltd.	1963
8.	Slaughter Houses Corporation	1970
9.	State Agro Industries Corporation	1972
10.	State Farms Corporation of India Ltd.	1969

Ministry of Commerce

	Name	Year of incorporation/registration
11.	Cotton Corporation of India Ltd.	1970
12.	Export Credit & Guarantee Corpn. Ltd.	1957
13.	Handicrafts & Handloom Export Corpn. Ltd. (Subsidiary of S.T.C.)	1958
14.	Indian Motion Pictures Export Corpn. Ltd. (Subsidiary of S.T.C. in 1967)	1963
15.	Jute Corporation of India	1971
16.	Minerals & Metals Trading Corpn. of India Ltd.	1963
17.	National Textile Corpn. Ltd.	1968
18.	Projects and Equipment Corporation of India Ltd.	1971
19.	State Trading Corpn. of India Ltd.	1956

Ministry of Communications

	Name	Year of incorporation/registration
20.	Hindustan Teleprinters Ltd.	1960
21.	Indian Telephone Industries Ltd.	1950

	Name	Year of incorporation/registration
	Ministry of Defence	
22.	Bharat Dynamics	1970
23.	Bharat Earth Movers Ltd.	1964
24.	Bharat Electronics Ltd.	1954
25.	Garden Reach Workshops Ltd. (Control acquired by Government in 1960)	1934
26.	Goa Shipyard Ltd. (Subsidiary of Mazagaon Dock Ltd.)	1967
27.	Hindustan Aeronautics Ltd.	1964
28.	Mazagaon Dock Ltd. (Control acquired by Govt. in 1960)	1934
29.	Praga Tools Ltd. (Control acquired by Govt. in 1959)	1943
	Ministry of Finance	
30.	Credit & Guarantee Corporation of India	1971
31.	Industrial Reconstruction Corporation	1971
32.	Life Insurance Corporation	1956
	Ministry of Health and Family Planning	
33.	Hindustan Latex Ltd.	1966
	Ministry of Heavy Industry	
34.	Bharat Heavy Electricals Ltd.	1964
35.	Bharat Heavy Plates & Vessels Ltd.	1966
36.	Bharat Pumps & Compressors Ltd.	1970
37.	Heavy Electricals (India) Ltd.	1956
38.	Heavy Engineering Corporation	1958
39.	Hindustan Machine Tools Ltd.	1953
40.	Machine Tools Corpn. of India Ltd.	1967
41.	Mining & Allied Machinery Corpn. Ltd.	1965
42.	Richardson & Cruddas (Acquired by Government in 1973)	—
43.	Scooter Manufacturing Co.	1972
44.	Triveni Structurals Ltd.	1965
45.	Tungabhadra Steel Products Ltd. (Acquired by Government in 1967)	1960
	Ministry of Industrial Development	
46.	Bharat Opthalmic Glass Ltd.	—
47.	Cement Corporation of India Ltd.	1965
48.	Delhi Small Industries Development Corporation†	1970
49.	Hindustan Cables Ltd.	1952
50.	Hindustan Paper Corporation†	1970
51.	Hindustan Photofilms Manufacturing Co. Ltd.	1960
52.	Hindustan Salts Ltd.	1953
53.	Industrial Development & Rehabilitation Corporation of India†	1972
54.	Instrumentation Ltd.	1964
55.	National Industrial Development Corporation Ltd.	1954
56.	National Instruments Ltd.	1957
57.	National Newsprint & Paper Mills Ltd.	1947
58.	National Small Industries Corpn. Ltd.	1955
59.	Sambhar Salts Ltd. (Subsidiary of Hindustan Salts Ltd.)	1964
60.	Tannery & Footwear Corpn. of India Ltd.	1969
	Ministry of Information & Broadcasting	
61.	Film Finance Corporation Ltd.	1960
	Ministry of Irrigation & Power	
62.	Indian Consortium for Power Projects	1970
63.	National Projects Construction Corporation Ltd.	1957

	Name	Year of incorporation/registration
64.	Rural Electrification Corporation Ltd.	1969
65.	Water & Power Development Consultancy Services (India) Ltd.	1969
	Ministry of Labour & Rehabilitation	
66.	Rehabilitation Housing Corporation	1951
67.	Rehabilitation Industries Corporation Ltd.	1951
	Ministry of Petroleum & Chemicals	
68.	Cochin Refineries Ltd.	1963
69.	Engineers (India) Ltd.	1965
70.	Fertiliser Corpn. of India Ltd.	1961
71.	Fertilizers & Chemicals Travancore Ltd. (Control acquired by Govt. in 1963)	1942
72.	Hindustan Antibiotics Ltd.	1954
73.	Hindustan Insecticides Ltd.	1954
74.	Hindustan Organic Chemicals Ltd.	1960
75.	Indian Drugs & Pharmaceuticals Ltd.	1961
76.	Indian Oil Corporation Ltd.	1959
77.	Indian Petrochemicals Corporation Ltd.†	1969
78.	Lubrizol India Ltd.	1966
79.	Madras Fertilisers Ltd.	1966
80.	Madras Refineries Ltd.	1965
81.	Oil & Natural Gas Commission	1956
82.	Pyrites, Phosphates & Chemicals Ltd.	1960
	Ministry of Science & Technology	
83.	National Research Development Corporation	1953
	Ministry of Shipping & Transport	
84.	Central Road Transport Corporation Ltd.	1964
85.	Central Inland Water Transport Corporation	1967
86.	Cochin Shipyard†	1965
87.	Hindustan Shipyard Ltd.	1952
88.	Mogul Lines Ltd. (Control acquired by Government in 1960)	1938
89.	Shipping Corporation of India Ltd.	1961
	Ministry of Steel & Mines	
	Department of Mines & Metals	
90.	Bharat Aluminium Co. Ltd.	1966
91.	Bharat Coking Coal Ltd.†	1971
92.	Bharat Gold Mines Ltd.†	1972
93.	Hindustan Copper Ltd.	1967
94.	Hindustan Zinc Ltd.†	1967
95.	Metal Scrap Trading Corpn. Ltd†	1971
96.	Mineral Exploration Ltd.†	1971
97.	National Coal Development Corpn. Ltd.	1956
98.	National Mineral Development Corpn. Ltd.	1958
99.	Neyveli Lignite Corpn. Ltd.	1966
	Department of Steel	
100.	Bokaro Steel Ltd.†	1964
101.	Hindustan Steel Works Construction Ltd.	1964
102.	Hindustan Steel Ltd.	1954
103.	Steel Authority of India (SAIL)†	1972
	Ministry of Tourism & Civil Aviation	
	A. *Department of Civil Aviation*	
104.	Air India	1953
105.	Indian Airlines	1953
106.	International Airports Authority of India†	1972

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† Undertakings under construction.

Name	Year of incorporation/registration
B. *Department of Tourism*	
107. Ashoka Hotel Ltd.	1955
108. Indian Tourism Development Corporation Ltd.	1965
109. Janpath Hotels Ltd.	1963
Ministry of Works and Housing	
110. Hindustan Housing Factory Ltd.	1953
111. Housing & Urban Development Corporation	1970
112. National Building Constn. Corpn. Ltd.	1960
Department of Atomic Energy	
113. Electronic Corporation of India Ltd.	1967
114. Indian Rare Earths Ltd.	1950
115. Uranium Corporation of India Ltd.	1967

GOVERNMENT INDUSTRIAL UNDERTAKINGS

THE total value of production of 105 operating government companies increased by Rs. 3,910 million to Rs. 25,410 million during the year ended March 1971 and total earnings by Rs. 3,560 million to Rs. 24,830 million. The 105 companies — 56 Central Government companies with a total paid up capital of Rs. 14,620 million as on March 31, 1971 and 49 State Government companies with a total paid up capital of Rs. 660 million — account for about 76·5 per cent of the aggregate paid up capital as at the end of March 1971. Among the 105 companies, 30 Central Government companies and 23 State Government companies earned profits during 1970-71 after meeting interest obligations.

Gross profits (profits before tax and interest) improved from Rs. 918·7 million in 1969-70 toRs. 1,018·5 million in 1970-71. The amount of gross profit earned was not adequate even to cover the interest obligations which amounted to Rs. 1,043·8 million in 1970-71. After tax provision and dividend payments the overall operations of the 105 companies in 1970-71 showed a net loss of Rs. 370·8 million, against Rs. 364·7 million in the previous year. The ratio of gross profits to sales fell marginally from 4·2 per cent in 1969-70 to 3·9 per cent in 1970-71 for giant companies and from 4·8 per cent to 4·7 per cent for other companies.

Ashoka Hotel, Chanakyapuri, New Delhi 110021. Five-star de-luxe hotel.

No. of rooms 485; No. of beds 649. The highest and lowest charge per day : Rs. 400 to Rs. 120.

Executive Director : Lt. Gen. J. T. Satarawala.

Atomic Reactors, Trombay, Bombay 400071.
(*See under* "*Atomic Energy*")

Bharat Aluminium Co., Ltd., (Under the Ministry of Steel & Mines).

Registered Office : F-41, N.D.S.E., Part I, New Delhi 110049.
Objects : Constructing, managing and operating the Korba (Madhya Pradesh) and the Ratnagiri (Maharashtra) aluminium projects and to undertake allied activities. Brief details of the two aluminium projects are given below :—

Korba Aluminium Project : It consists of a 200,000 tonnes per annum capacity alumina plant, a 100,000-tonnes per annum capacity smelter for production of aluminium metal and facilities for manufacture of aluminium semis. The project has technical assistance from Messrs. Chemokomplex of Hungary up to the alumina stage and technical and financial assistance from Messrs. Tsvetmetpromexport of the U.S.S.R. for the smelter and fabrication facilities. The alumina plant is expected to go into production soon.

Ratnagiri Aluminium Project : The project which is planned to produce 50,000 tonnes of aluminium metal per annum is being implemented with the assistance of Hungarian firm, Messrs. Chemokomplex.

Chairman-cum-Mg. Director : Lt.-Gen. N. Sen Gupta.

Bharat Dynamics Ltd., Chandrayan Gutta Lines, Hyderabad 500005.

The Company was established in July 1970 to manufacture defence equipment.

Chairman, Dr. B. D. Nag Choudhuri ; *Mg. Director,* AVM S. J. Dastur.

Bharat Earth Movers Ltd., Post Bag No. 7, Bangalore 560002.

It has a railcoach factory at Bangalore manufacturing broad gauge integral coaches of various types and an earth moving equipment factory at Kolar Gold Fields manufacturing wheeled earth moving equipment in collaboration with Messrs. WABCO, U.S.A. and Messrs. Radoji Dakic, Yogoslavia and crawler tractors of various types in collaboration with Messrs. Komatsu Limited, Japan.

As against Rs. 266·58 million in the previous year, the turnover during 1971–72 was Rs. 352·51 million.

Mg. Director : Maj.Gen. O. M. Mani ; *General Manager,* Railcoach Division : R. L. Kapoor ; *General Manager,* Earth Mover Division : N. R. Bhargava.

Bharat Electronics Ltd., P. O. Jalahalli, Bangalore 560013. Produces a wide range of electronic equipment like radars, transmitters, communication receivers and transreceivers for static and mobile roles using latest transmission reception techniques, measuring instruments and test instruments like VTVM, clinical Audio Meter, RF Output Meter, and several components like Hybrid Micro Circuits, Vacuum Capacitors etc.

BEL's production during 1971–72 was Rs. 328·20 million compared with Rs. 294·00 million in 1970–71. Sales during the year amounted to Rs. 333·30 million and the gross profit was Rs. 62·30 million prior to taxation.
The factory employs over 12,300 workers out of which about 2,150 are women.

Chairman & Mg. Director : Lt.-Gen., A. C. Iyappa (Retd.) ; *General Manager :* C. R. Subramanian.

Bharat Gold Mines Pvt. Ltd., Kolar Gold Fields, P. O. Oorgaum, Mysore State.

This public sector undertaking has taken over the assets and liabilities of the Kolar Gold Mining Undertakings. It becomes the principal gold producing undertaking and expects to step up production.

Chairman-cum-Mg. Director : K. V. Subrahmanyam.

Bharat Heavy Electricals Ltd., *Regd. Office :* 5, Parliament St., New Delhi 110001.

The company has under it the following three manufacturing units :—(1) Heavy Electrical Equipment Plant, Ranipur, near Hardwar (U.P.) ; (2) Heavy Power Equipment Plant, Ramachandrapuram, Hyderabad (A.P.) ; and (3) High Pressure Boiler Plant, Tiruverumbur, Tiruchirapalli (T.N.).

All the plants have gone into production and the power generating equipment is being manufactured for various important thermal and hydro power stations.

The net profit during the year 1971–72 was Rs. 31·9 million.

Chairman & Mg. Director : V. Krishnamurthy ; *Gen Manager* (Hardwar Unit) : K. L. Puri ; *Gen. Manager* (Hyderabad Unit) : C. B. Cariappa ; *Gen. Manager* (Tiruchy Unit) : P. V. K. Achan.

Bharat Heavy Plate and Vessels Ltd., B.H.P.V., P. O. Visakhapatnam 530012. (Under the Ministry of Steel & Mines).

The factory has gone into regular commercial production of sophisticated equipment required by the process industry.

The equipment manufactured include light, medium and heavy columns for absorption, Distillation etc., tanks and pressure storage vessels, heat exchangers, pipe fabrication, vessels with agitators and mixers, technological structures etc.

Mg. Director : K. S Sarma ; *Secretary :* K V. Suryanarayanan.

Bharat Opthalmic Glass Ltd., Durgapur-10.

Bharat Pumps & Compressors Ltd., Naini (Allahabad). *Regd. Office :* 10/16, Hashimpur Rd., Allahabad.

To cut down imports drastically, the company was established in 1970. It has two units : one for the production of reciprocating compressors and centrifugal and reciprocating pumps, and the other for the manufacture of high pressure gas cylinders and seamless tubular bodies.

Chairman : O. N. Misra ; *Secretary :* D. P. Mahajan.

Bokaro Steel Ltd., Bokaro Steel City, Dt. Dhanbad (Bihar).

The work on this project was started as a result of an agreement signed on 25th January 1965 between the Government of India and the Government of USSR. Bokaro is the fourth steel plant in the public sector in the country. It consists of two stages. Stage I for the production of 1·7 million tonnes of ingot steel and 880,000 tonnes of pig iron and stage II for the production of four million tonnes of ingot steel. Stage I is due to be completed by the end of 1973.

Since Bokaro Steel Plant has been conceived essentially as a four million tonne plant and its expansion from the intermediary stage of 1·7 million to four million tonnes capacity is to be done on continuous basis, the major portion of the work of four million tonnes is involved in the construction of the first stage itself. The expansion is being phased in a manner so as to achieve a capacity of 2·5 million tonnes on a crash programme basis by the end of Fourth Plan i.e. March 1974 and four million tonnes by 1978.

According to the detailed project report, Bokaro is expected to just break even at the four million tonne stage. So the question of expanding the capacity beyond the four million tonne stage is now being considered as a matter of urgency. The feasibility report for expansion to 4·75 million tonnes has already been received and based on this a proposal has been put up to the Govt. for approval. This expansion is estimated to cost only Rs. 580 million. The cost per ingot tonne of this additional capacity works out to Rs. 800 only. This will bring down the investment cost to Rs. 2,660 per ingot tonne of steel capacity. A number of plant units, were commissioned during the year 1972.

Central Institute of Plastics Engg. & Tools, Guindy, Madras 600032. (Under Ministry of Petroleum and Chemicals).

It is a training-cum-consultancy-cum-development institute set up to assist plastic industries by carrying out training in mould making and mould design and mould polishing. In course of time other specialised courses to cater to the demands of plastic industry will be introduced.

Chittaranjan Locomotive Works, *Head Office & Works:* Chittaranjan, Dt. Burdwan, West Bengal. *Branch Office :* 4, Chittaranjan Avenue, Calcutta 700013.

(Under Ministry of Railways.)

After having been in production for a little over two decades the Chittaranjan Locomotive Works which was set up in 1950 finally stopped production of steam locomotives with the rolling out of the 60th YG class metre gauge steam locomotive in February 1972. The company stopped production of broad gauge steam locomotives on June 30, 1970 when the last loco class steam locomotive bearing fleet No. 10560 was rolled out of the assembly lines. The company has so far produced 2,844 locomotives — steam 2,351, electric 355, and diesel 138.

General Manager A. L. Kochhar.

Coal Mines Authority of India Ltd. (CMAIL): Industry House, 10, Camac St., Calcutta 700017. Other Offices : *Eastern Divn.:* Sanctoria, P. O. Dishergarh, Dt. Burdwan ; *Central Divn.:* Darbhanga House, Ranchi 834001 ; 10, N. Subash Rd., Calcutta 700001 ; *Western Divn.:* Visweshwara House, Temple Rd., Nagpur ; *Purchase & Sales :* 6, Lyons Range, Calcutta 700001 ; *Liaison Offices :* 23, Golf Links, New Delhi 110003 ; B-22, Sector A, Mahanagar, Lucknow 226001 ; Normal School Rd., Bilaspur 495001 ; P. O. Barkakana, Dt. Hazaribagh (Bihar).

A holding company set up by the Govt. of India to be in overall charge of planning and production of all coal mines in the country. The National Coal Development Corpn. Ltd. and the Singareni Collieries Co. Ltd. will function as its subsidiaries.

Chairman, J. G. Kumaramangalam ; *Addl. Custodian-General,* A. K. Ray ; *Directors,* K. P. Mukherji (*Marketing*), C. Balram (*Technical*).

Cochin Refineries Ltd., P. Bag 1751, Cochin 682016. (See under " Petroleum Industry ")

Cochin Shipyard Ltd., P. Bag 1653, Cochin 682015.

Objectives : Ship building, ship repairs and allied activities. The company is now engaged in construction of the shipyard with building and repair docks and other facilities which are expected to be ready by 1975 at an estimated cost of Rs. 454 million.

Diesel Locomotive Works, Varanasi.

This is one of the three production units of the Indian Railways manufacturing diesel engines and diesel electric locomotives. Upto July 1971, 435 locomotives (BG & MG) have been manufactured. The factory produces 2600 H.P. locomotives for B. G. and 1350 H.P. locomotives for M.G.

The DLW has also undertaken to supply 2 generating sets of the value of Rs. 4 million to the Bhabha Atomic Research Centre.

The number of men employed is about 6,200.

Engineering Projects (India) Ltd., Himalaya House, 23, Kasturba Gandhi Rd., New Delhi 110001.

Functions as a consortium of eight leading Government of India enterprises for executing complete plant/project on turn key basis in India and abroad. It pools the resources of its member companies for implementing a variety of industrial projects such as steel rolling mills, coke oven plants etc. etc. The company is presently engaged in implementing 8 turn key projects of the value of approximately Rs. 250 million.

Mg. Director : Mohd. Fazal ; *Gen. Project Manager :* S. S. Das Gupta ; *Finance Manager :* R. K. Khanna.

Engineers India Ltd., PTI Bldg., 4, Parliament Street, New Delhi 110001.

This company was set up in collaboration with Bechtel International Corporation of San Fransisco, U.S.A. but has been functioning as a wholly owned Govt. of India undertaking since mid. 1967.

The company provides complete consultancy services such as techno-economic studies, process design, engineering, procurement, construction supervision, etc. for the public and private sectors, especially in petroleum, petrochemical, chemical, fertilizer, non-ferrous metallurgy and allied fields. Also undertakes design of heat transfer equipment, engineering on ports and harbours and offshore engineering.

Fertilizer Corpn., of India Ltd., F-43 South Extn., Part I, Ring Rd., New Delhi 110049. (Under the Ministry of Petroleum and Chemicals.)

The Corporation has five operating fertilizer factories at Sindri (Bihar), Nangal (Punjab), Trombay (Maharashtra), Gorakhpur (U.P.) and Namrup (Assam). These produce nitrogenous, phosphatic and complex fertilizers, heavy water, methanol and other industrial products. The Planning & Development Division at Sindri has developed almost a complete range of catalysts required in fertilizer industry.

There are nine projects under implementation—Durgapur, Barauni, Namrup expansion, Sindri rationalisation, Talcher Ramagundam, Haldia, Gorakhpur expansion and Korba. These are likely to be completed by the end of Fourth Five Year Plan. That will raise the annual installed production capacity of Fertilizer Corporation of India to 1·750 million tonnes of nitrogen and 0·271 million tonnes of P_2O_5 in terms of nutrients. In addition the three new projects under planning are : Nangal expansion, Trombay expansion and modernisation of Sindri.

(For production details see chapter on "Fertiliser Industry")

Chairman : Vacant ; *Mg. Director :* Dr. K. R. Chakravorty ; *Director (Proj.) :* K. C. Sharma ; *Director (Fin) :* O. K. Ghosh ; *Director (Prod.) :* Dr. S. K. Mukherjee *Secretary :* P. B. Jajodia ; *General Managers :* R. S. Kachawala (Nangal) ; R. K. Ghosh (Sindri); Duleep Singh (Trombay); N. B Tendolkar (Durgapur) ; M L. Leekha (Barauni) ; K. V. Antony (Ramagundam) and O. P. Agarwal (Planning & Dev. Divn.) ; *General Project Managers :* R. Subramaniam (Talcher) and P. Chawla (Korba).

Garden Reach Workshops Ltd., 43/46, Garden Reach Rd., Calcutta 700024.

The Company has its main workshops at Garden Reach, and branch units at Baranagore and at Taratala Road.

The Company has 5 slipways and 2 dry docks. It is one of the major ship-building and ship-repairing yards in India and is fully equipped to undertake all types of marine repairs to sea-going vessels as well as inland and harbour crafts. It builds all types of inland and harbour crafts and the smaller coastal vessels, and is specialising in the building of dredgers.

Garden Reach Workshops Ltd. also manufactures electrical overhead travelling cranes, deepwell turbine pumps, marine haulages and conveyors, air compressors, diesel road rollers, pressure vessels, heat exchangers and deck machinery items like cargo winches, windlesses etc.

They are now manufacturing Marine Diesel Engines of three types at Ranchi.

The Company employs over 6,500 men.

Chairman : Vacant : *Mg. Director :* S. Soundararajan.

Heavy Electricals (India) Ltd., Piplani, Bhopal. (Under the Ministry of Industrial Development and Internal Trade.)

The factory manufactures the whole range of steam turbines, generators, condensers and feed heating equipment for thermal power stations, water turbines and generators for hydro power stations, butterfly valves for general hydraulic systems, power transformers and switch gear for sub-stations, electric traction equipment for freight and passenger trains, industrial rectifiers, power capacitors, motor control gear and large A.C. & D.C. motor control gear and large A.C. and D.C. motors for cement factories, rolling mills, mines and other applications.

Production : The factory started production in the latter half of 1960. During the last twelve years it has produced equipment worth over Rs. 1,700 million.

Chairman and Mg. Director : V. Krishnamurthy.

Heavy Engineering Corpn. Ltd., Administrative Building Plant, Plaza Rd., P.O. Dhurwa, Ranchi 834004.

The Corporation has now established the following projects :—

1. Heavy Machine Building Plant at Ranchi in collaboration with U.S.S.R. ; 2. Foundry Forge Plant and 3. Heavy Machine Tools Plant at Ranchi in collaboration with Czechoslovakia.

Heavy Machine Building Plant, Ranchi : The plant has a production capacity of 80,000 tonnes of machinery items for steel plants and heavy engineering industries and 25,000 tonnes of structural steel items per year.

Foundry Forge Plant : This plant has the following production per year from its main production shops : Grey Iron Foundry (shaped castings) 33,345 tonnes ; Steel Foundry (shaped castings) 40,182 tonnes ; Non-Ferrous Foundry (castings) 700 tonnes ; Forgings 50,000 tonnes ; Grey Iron Steel and Forged Rolls 21,310 tonnes. The Plant produced 20,954 tonnes of heavy castings and forgings worth Rs. 93·00 million during 1971-72.

Heavy Machine Tools Plant, Ranchi : This plant has an annual production capacity of 10,000 tonnes of certain diverse items of heavy machine tools.

The plant has gone into production of items like radial drilling machines, central lathes, double column planning machines etc.

Chairman : Ranchor Prasad ; *Mg. Director :* Satish Chandra Vadera ; *Director (Technical) :* Dr. S. Bhattacharya ; *General Manager (Heavy Machine Building Plant) :* D. R. R. Sastri *General Manager (Foundry Forge Plant) :* D. K. Chakravorty ; *General Manager (H.M.T P.) :* D. C. Jain.

Heavy Vehicles Factory, Avadi, Madras 600054.

The Heavy Vehicles Factory, is designed as an integrated unit for the manufacture of all major assemblies of the tank including the engines, gear box and the suspension units. The first 'Vijayanta' medium tank produced in this factory rolled out on 29-12-65 as scheduled and since then, regular production of tanks has been established.

The factory has also established production of armoured recovery vehicles required for the Army.

The planning of the factory has been done in a manner that manufacturing capacity is available not only for the manufacture of tracked vehicles but also for other items of heavy engineering required for military as well as civilian purposes.

The employment potential of the factory is of the order of 5,000.

Hindustan Aeronautics Ltd., Indian Express Building, Vidhana Veedhi, Bangalore 560001.

The Hindustan Aeronautics Limited, came into being on 1st October 1964 by the amalgamation of Hindustan Aircraft Ltd. of Bangalore with Aeronautics India Ltd. It has four constituent units, namely, the Bangalore Division, the MiG Complex comprising the factories at Nasik, Koraput and Hyderabad, the Kanpur Division and the Lucknow Division.

It is currently manufacturing: (*a*) The Jet ground attack fighter HF-24 (Marut) which has been designed and developed by HAL; (*b*) The Supersonic interceptor MiG-21; (*c*) The Jet fighter Gnat; (*d*) The Jet trainer HJT-16 (Kiran) which has been designed and developed by HAL; (*e*) The Alouette Helicopter; (*f*) The transport aircraft HS-748; (*g*) Several types of aero-engines and (*h*) Several items of airborne electronic equipment.

The company also undertakes the overhaul of aircraft, aeroengines and allied equipment.

Work on the manufacture of a modified version of the MiG-21 aircraft under licence is progressing.

Development Work: The items under development include variants of the HF-24 aircraft, indigenous helicopter in collaboration with SNIAS, France, HJE — 2500 Engine, 300 KVA gas turbine driven generator set and several items of electronic equipment.

HAL earned a net profit of Rs. 48·30 million during the year 1971-72. Production was Rs. 696 million in 1971-72 as compared to Rs. 740 million in 1970-71. Exports amounted to Rs. 1·12 million against Rs. 1·40 million during the previous year. Import substitution resulted in a saving of Rs. 11 million.

Chairman: Air Marshal O. P. Mehra; *Mg. Director* (Bangalore Division): Air Vice-Marshal A. S. Rikhy; *Mg. Director* (MiG Complex): Air Commodore C. R. Kurpad (Retd.).

Hindustan Antibiotics Ltd., Pimpri, Poona 411018. (Under the Ministry of Petroleum and Chemicals.)

This factory came into being as a result of the tripartite agreement between the Government of India, the World Health Organisation and the UNICEF.

Produces antibiotics like penicillin, streptomycin, hamycin etc. The present capacity of production of penicillin is about 84 m.m.u.

The streptomycin plant is of 80 tonnes capacity.

Another important development is the discovery of antifungal antibiotic hamycin and other new antibiotics useful in plant disease control and veterinary practice by the Research Division of the company.

Hindustan Cables Ltd., Moula Ali Ind. Estate, P.O. Hindustan Cables, Hyderabad 500051.

The factory is under construction and is expected to commence production of paper insulated underground telephone cables and foam polyethylene insulated telephone cables by 1974. In terms of value the annual production will be to the tune of Rs. 101·591 million. Estimated cost of the project: Rs. 63·6 million. Foreign exchange saving per annum: Rs. 55·20 million.

Project Manager: K. L. Reddi.

Hindustan Coir, P.O. Kalavoor, Alleppey Dist.

This powerloom factory is under the Coir Board (Govt. of India) for the production of coir mattings — first of its kind under public sector. Started production on commercial sale on 1st Jan. 1969.

Hindustan Copper Ltd., *Regd. Office:* P.O. Khetri Nagar, Dist.: Jhunjhunu (Rajasthan). (Under Ministry of Steel & Mines (Department of Mines.))

Khetri Copper Project, Rajasthan: Is under construction and is estimated to cost Rs. 1150 million. The project envisages: (*i*) Production of 31,000 tonnes of electrolytic grade copper metal per annum; (*ii*) Production of about 200,000 tonnes of triple super phosphate per annum.

Some quantity of gold and silver would also be recovered as by-products.

Experimental production of ore at Khetri Mines and Kolihan Mines is in progress. The Concentrator Plant is expected to be commissioned by March 1973 and the remaining plants by the end of 1974.

Indian Copper Complex, Bihar: The current production of copper metal at Ghatsila is about 12,000 tonnes per annum. The company has plans in hand for the expansion of production of copper metal at this complex to about 20,000 tonnes over a period of six years. A new Concentrator Plant having a capacity of 2,000 tonnes per day is under construction at the Mosabani Mine.

Rakha Copper Project, Bihar: Located in District Singhbhum and comprising 3 blocks (*i*) Rakha Mines Block; (*ii*) Roam Sideshwar; and (*iii*) Tama Pahar. Work on the first phase development of Rakha Copper Project started in August, 1969. In the first phase it is proposed to produce 3,500 tons of copper metal from this deposit by March, 1974. A scheme for full scale development of Rakha Copper Project for the production of 20,000 tons of copper metal per annum, is under preparation.

Agnigundala Lead-Copper Project, Andhra Pradesh: Exploratory mining has been taken up at Bandalamottu block and Nallakonda block of the Agnigundala mineralised belt. The construction of a pilot mill of 100 tonnes per day capacity has also been taken up.

HCL at present employs about 17,480 persons.

Chairman: D. K. Dhaon; *Secretary:* G. S. Dutt.

Hindustan Housing Factory Ltd., Jangpura, New Delhi 110014. (Under the Ministry of Works and Housing).

Main products:

Prefabricated components for multi-storeyed buildings; Prestressed concrete electric transmission and street light poles; P.C.C. beams and trusses for industrial sheds with sheeted roofs; Hollow core roofing and flooring components; Prestressed fencing posts; R.C.C. door and window frames; Hollow blocks for roofing and walling; Overhead concrete water storage tanks; Large concrete panels for large panel house costruction; Prestressed concrete mono-block railway sleepers; R.C.C. two-block railway sleepers; Precast vibrated pipes for drains; Vayutancellular concrete blocks for cold storage and air-conditioned buildings and for light weight partition and reinforced; Vayutan slabs for roofing and flooring in multi-storeyed buildings; Machine-made doors, window frames and shutters; High class furniture and interior decoration work; Seasoning and chemical treatment of timber.

The production during 1971–72 was Rs. 23·7 million and the profit made by the factory during 1971–72 was Rs. 3·38 million.

Mg. Director: K. G. Salvi; *Devpt. Manager:* G. B. Singh.

Hindustan Insecticides Ltd., Regd. Office: E-3, Defence Colony, New Delhi 110024.

Incorporated in March 1954, as a Government of India undertaking this company has two factories at present in Delhi and Alwaye (Kerala) for the manufacture of D.D.T. and B.H.C.

An agreement entered into earlier in 1952 with the UNICEF and WHO provided aid for setting up this factory to produce 700 tonnes of technical D.D.T. per annum and it went into production in April 1955.

The company has a paid up capital of Rs. 12·547 million. The total general reserves of the company as on 31st March 1972 amount to Rs. 21·165 million.

To meet the increased requirement of D.D.T. for the National Malaria Eradication Programme the capacity of Delhi factory was doubled by 1958 and simultaneously a second factory with an installed capacity of 1,344 tonnes per annum of technical D.D.T. was set up at Alwaye. A further expansion of the Company was sanctioned by the Government in 1965–66 to double the capacity for D.D.T. production at Delhi factory to 2,688 tonnes per annum and to set up a 3,000 tonnes per annum plant for B.H.C. at the Alwaye factory. By 1969–70 the expansion programme was completed.

The Company earned a net profit of Rs. 4·148 million during 1971-72.

Mg. Director : P. K. Narayanaswamy; *Financial Controller & Chief Accounts Officer :* S. Swaminathan.

Hindustan Latex Ltd., Nirodh Factory, Peroorkada, Trivandrum 695005.

Registered Office : Mayur Bhavan, 9th Floor, N.D.M.C. Building, Connaught Circus, Post Box No. 429, New Delhi 110001. (Under the Ministry of Health and Family Planning.)

The company set up with Japanese Collaborators, manufactures 3,000 gross of Nirodh (Rubber condoms) per day.

Hindustan Machine Tools Ltd., H.M.T. P.O., Bangalore 560031. (Under the Ministry of Industrial Development and Internal Trade, Govt. of India).

This is located in Jalahalli, Bangalore, with five machine tool factories at: (I & II) Bangalore in Mysore; (III) Pinjore in Haryana; (IV) Kalamassery in Kerala and (V) Hyderabad in Andhra Pradesh and three watch factories (I & II) Bangalore in Mysore and (III) near Srinagar in Kashmir.

The factory produces a wide range of machine tools.

The Company has 14,233 skilled and semi-skilled workers (in all its factories) as on March 31, 1972.

Production in the various factories during the year 1971–72 was Rs. 107·0 million worth machine tools at HMT I & II, Bangalore; Rs. 69·9 million worth machine tools at HMT III, Pinjore; Rs. 18·9 million worth machine tools at HMT IV, Kalamassery; Rs. 44·3 million worth machine tools at HMT V, Hyderabad and Rs. 46 million worth watches by HMT Watch Factory, Bangalore.

Export : During 1971–72 HMT exported machines valued at Rs. 11·5 million and watches valued at Rs. 0·1 million. The Company has its own Sales-cum-Service Centres in Luxembourg, Los Angeles, Sydney and Melbourne.

Watch Factories: Collaboration : Messrs. Citizen Watch Co., Japan. The HMT Watch Factory in Bangalore turned out watches worth Rs. 46 million during 1971-72 as against Rs. 40·3 million during 1970-71. It currently produces six varieties of Gents' watches *viz.*, Janata, Janata Luminous, Pilot, Sona, Tareeq and Jawahar; two varieties of Ladies' watches *viz.*, Sujata and Nutan and one variety of Students *viz.*, Tarun.

The second watch factory which was commissioned in October 1972 has a production capacity of 2,000 automatic day and date watches per annum. Construction of the IIIrd watch factory in Srinagar has already started. During the year 1971–72, the Company had sold watches worth Rs. 46·9 million as against Rs. 40·7 million during 1970-71.

The Company has its sales and service centres at Ahmedabad, Bangalore, Bombay, Calcutta, Chandigarh, Coimbatore, Delhi, Ernakulam, Hyderabad and Madras.

New Projects : *Tractors :* During 1971-72, the Pinjore factory assembled 1,600 tractors valued at Rs. 28·9 million and sold 1,300 tractors valued at Rs. 22·9 million. The company has planned to step up production of tractors to 12,000 units per year within five years. *Printing Machinery :* The first printing machine assembled at its factory in Kalamassery was released in August 1972. The Company will be producing printing machines worth about Rs. 5·3 million during 1973. *Hydraulic Presses and Press Brakes :* The press division of the factory at Hyderabad was commissioned on August 17, 1972. During 1971-72, presses and press brakes worth Rs. 12·6 million were produced. *Die-casting and Plastic Injection Moulding Machines :* During 1971-72, the factory at Bangalore assembled die-casting and plastic injection moulding machines worth Rs. 5·3 million. *Numerical Control Machines :* The company has entered into agency agreements with Messrs Marwin Holding Limited of U.K. and Messrs. Gildemeister and Co. of West Germany for manufacture and sale of numerical control machines. *Mini Chucker :* The company has given licence to Messrs. Wickan Ltd. of U.K. for manufacture and vending of Mini Chucker, a product designed and developed entirely by H.M.T. engineers.

During the year 1971-72 HMT earned a gross profit of Rs. 33·4 million as compared to the gross profit of Rs. 19·4 million during 1970-71. The net profit of the company for the year 1971-72 was Rs. 11·2 million.

Chairman & Mg. Director : Dr. S. M. Patil; *Chief Commercial Manager :* M. Nageswara Rao.

General Managers : K. R. S. Gowda (HMT I & II, Bangalore); P. S. Banerjee (HMT III, Pinjore); T. V. Mansukhani (HMT IV, Kalamassery); B. Ramachandra (HMT V, Hyderabad); M. N. Madhav Murthy (HMT Watch Factory, Bangalore); R. Yogeshwar (Foreign Operations).

Hindustan Organic Chemicals Ltd., P.O. Rasayani, Dist. Kolaba, Maharashtra. (Under the Ministry of Petroleum, Chemicals, Mines and Metals).

This company was incorporated in December 1960 in technical collaboration with a consortium of four West German Firms.

The Company's present production programme includes a number of chemicals.

Hindustan Photo Films Mfg. Co. Ltd., Indu Nagar, Ootacamund 643005.

This factory was set up in collaboration with a French Firm, Bauchet and Co.

When the factory goes into full production, it is expected to turn out annually 6·15 million sq. m. of photographic film and photographic paper. As an adjunct to the main plant, a Silver Nitrate Plant, a Silver Sludge Recovery plant and a unit for synthesizing organic chemicals, have also been set up.

The value of sales during the year 1971–72 was Rs. 43·36 million. The total production during this year was 3·3 million square metres consisting of cine film positive, cine film sound, x-ray film, photographic paper, roll film, 35 mm negative film, portrait film and graphic arts film. *Managing Director :* V. S. Raghavan.

Hindustan Salts Ltd., Badnor House, Bhagwan Das Rd., P. B. 146, Jaipur (Under the Ministry of Industrial Development.)

The salt sources at Kharaghoda (Gujarat) and the salt mines at Mandi (Himachal Pradesh) are under the administrative control of the company.

Production during the fiscal year ending 30th September, 1971, are as follows :—

Common Salt 69,891 m. tonnes; Rock and Pan Salt 4,267 m. tonnes.

The Sambhar Salts Ltd., a subsidiary of Hindustan Salts Ltd., produced 195,876 m. tonnes of salt during the fiscal year ending September 1971. In addition to common salt, the company produced 221·9 m. tonnes of dairy salt, 21·1 m. tonnes of table salt and 75·0 m. tonnes of Sodium Sulphate.

Managing Director : K. L. Gambhir; *Secretary :* B. B. Mookerjee, I.M.P.

Hindustan Shipyard Ltd., Visakhapatnam 530005, Andhra Pradesh. (Under the Ministry of Transport and Shipping). The shipyard has four building berths with a capacity of 15,000 dwt each, and bulk carriers/tankers upto 25,000 dwt. The capacity of the dry dock constructed at a cost of Rs. 48·7 million is 57,000 dwt.

Hindustan Shipyard has so far built 58 ships of different sizes and types aggregating more than 481,982 dwt.

The foundation stone for the second shipyard was laid in Cochin on 28th April 1972.

Chairman and Mg. Director : S. Balakrishna Shetty.

Hindustan Steel Ltd., P.O. Hinoo, Ranchi. (Under the Ministry of Steel and Heavy Engineering).

Hindustan Steel Ltd. has four steel plants the Rourkela Steel Plant, Bhilai Steel Plant, Durgapur Steel Plant and Alloy Steels Plant.

(For production figures refer to chapter on Steel Industry).

Rourkela Steel Plant : is situated in Orissa 413 kilometres west of Calcutta, on the South-Eastern Railway. All the expansion units of Rourkela Steel Plant have been commissioned. (Under technical and financial agreement with Government of West Germany.)

Bhilai Steel Plant : is located in Madhya Pradesh on the South-Eastern Railway between Calcutta and Bombay, 260 kilometres east of Nagpur.

Durgapur Steel Plant : is situated in West Bengal and lies on the main line of the Eastern Railway between Calcutta and Delhi.

Alloy Steels Plant at Durgapur : is rated to produce 2,250 tonnes of high speed steels, 3,600 tonnes of alloy, tool and die steels, 9,500 tonnes of carbon tool steels, 26,650 tonnes of constructional steels and 18,000 tonnes of stainless steels. After the expansion the plant will produce 300,000 tonnes.

Coal Washeries : The company has four coal washeries at Dugda, Bhojudih and Paterdih. Dugda is 48 kms and Paterdih 16 kms. from Dhanbad in Bihar. In Dugda itself there are two coal washeries. Both have a capacity of 2·4 million tonnes of raw coal. Bhojudih Coal Washery has 2 million tonnes of raw coal input and Paterdih also 2 million tonnes of raw coal.

Central Engineering & Design Bureau : functions as consultants to the Government of India on matters connected with steel industry. In this capacity it has been assisting the Ministry of Steel & Mines in the formulation of plans for new steel plants capacity to be created during the Five-Year Plans. It is engaged in the detailed engineering of the expansion of Bokaro Steel from 1·7 million tonnes to 4·0 million tonnes. The CEDB has also been appointed consultant for the proposed Steel Plant at Hospet in Mysore State. The Ministry of Defence has appointed CEDB as consultants for the setting up of a new plant at Kanpur. CEDB has entered into an agreement with the Soviet Organisation, V/O Tjazhpromexport whereby the Soviet design organisation Gipromez and associated design organisations which specialise in specific fields of steel technology, will assist in the development of CEDB in certain fields of project engineering. The CEDB has also entered into an agreement with Messrs. United Engineering and Foundry Company of Pittsburgh, U.S.A. for the acquisition of design and manufacturing know-how of rolling mills.

At present CEDB is engaged in the preparation of detailed project reports for the expansion of Bhilai Steel Plant and Alloy Steel Plant. It is also formulating schemes for further development of Durgapur and Rourkela Steel Plants.

Chairman : H. N. Bhayya.

Hindustan Steel Works Construction Ltd., 5/1, Commissariat Rd., Hastings, Calcutta 700022. *Functions :* undertakes entire responsibility for the construction of steel plants right from inception to commissioning including site investigation and preparatory works; better and closer co-ordination of various activities during the construction phase; conservation of trained personnel for steel plant construction programmes. The diversified activities of the company cover the existing as well as the new steel plants under construction. The company has also undertaken construction of several major industrial projects to utilise its spare capacity and resources and to go in for heavier construction programmes in the subsequent Five Year Plans.

Hindustan Teleprinters Ltd., G. S. T. Rd., Guindy, Madras 600032. This company was set up in collaboration with Messrs. Ing. C. Olivetti & C., Sp. A., of Italy.

The factory manufactures tape and page models of teleprinters, printing reperforator attachment, transmitter attachment, independent automatic tape transmitters in Latin, Devanagari and Arabic scripts. It produced 4,779 unit machines in the year 1971–72.

Chairman and Mg. Director : G. U. Menon.

Hindustan Zinc Ltd., 6, New Fatehpura Udaipur (Rajasthan). Under the Ministry of Petroleum & Chemicals and Mines and Metals).

The units administered by this company are: (*i*) the Zawar Mines. At present the mine produces about 1,200 tonnes of ore containing both lead and zinc. The ore is processed in a mill to produce lead and zinc concentrates. The level of production during 1971-72 was 4,765 tonnes of lead concentrates and 16,098 tonnes of Zinc concentrates. (*ii*) Tundoo Lead Smelter near Katrasgarh, Dhanbad with a capacity to produce 200 tonnes of refined lead per month. The lead concentrates produced at Zawar Mines are smelted here to produce pig lead of 99·99 per cent purity. A little quantity of 3 tonnes of silver is also recovered as by-product. (*iii*) An Electrolytic Zinc Smelter at Debari, Udaipur. The Zinc Smelter has been designed to produce 18,000 tonnes of zinc metal, about 29,000 tonnes of sulphuric acid and 72 tonnes of cadmium. (*iv*) Maton Rock Phosphate Mine near Udaipur to produce 180,000 tonnes of ore — which will give 90,000 tonnes of beneficiated rock phosphate. (*v*) A Rs. 212·4 million Electrolytic Zinc Smelter at Visakhapatnam to produce 30,000 tonnes of zinc per annum. Initially the concentrate needed for this smelter will be imported. Hindustan Zinc Limited has also plans to develop new lead/zinc mines in Zawarmala, Baroi, Rajpura-Dariba etc. in Rajasthan.

Hotel Janpath, New Delhi 110001.

This Hotel is a Unit of India Tourism Development Corporation having 214 rooms. It is moderately priced and very centrally situated.

India Government Silver Refinery, (Ministry of Finance, Dept. of Economic Affairs) 47, Strand Rd., Calcutta 700007.

This refinery has been installed for the extraction of silver and copper from the Q.A. coins minted during World War II. Nickel Sulphate and Nickel Silver (an alloy of Cu, Ni, and Zn) are obtained as by-products. The capital outlay on the Silver Refinery is about Rs. 14·40 million. The refinery employs 515 persons.

Indian Drugs and Pharmaceuticals Ltd., N-12 & 13, South Extension (Part I), Ring Rd., New Delhi 110049. (Under the Ministry of Petroleum and Chemicals).

It has three plants under its control, Antibiotics Plant at Rishikesh, Synthetic Drugs Plant at Hyderabad and Surgical Instruments Plant at Madras. The plants have been set-up with the help of the Government of U.S.S.R. The company and plants have over 7,000 employees.

Antibiotics Plant at Rishikesh (Uttar Pradesh) has been set up to produce penicillins, sodium & procaine, streptomycin, tetracycline, oxytetracycline and nystatin at an estimated cost of Rs. 270 million. It is already in the market with its products.

The Synthetic Drugs Plant at Hyderabad set up at a cost of Rs. 230 million synthesises about 1,000 tonnes of 15 types of drugs starting from basic stages. It serves the prime needs of the country with regard to synthetic drugs.

Surgical Instruments Plant, Madras set up at a cost of Rs. 46·50 million manufactures various types of surgical instruments of high quality.

Chairman & Managing Director : Jagjit Singh.

General Manager (Acting), Antibiotics Plant, Rishikesh: N. S. P. Chawla ; *General Manager*, Synthetic Drugs Plant, Hyderabad : Dr. L. K. Behl ; *General Manager*, Surgical Instruments Plant, Madras : R. Sundaracharhi.

Indian Oil Corporation Ltd., (See under " Petroleum Industry ").

Indian Rare Earths Ltd., Pil Court, 111, M. Karve Rd., Bombay 400020. (See under " Atomic Energy ").

HEAD OFFICE

Managing Director : P. Muralidharan ; *Chief Project Manager :* J. Y. Somnay ; *F. A. & C.A.O. :* N. D. Hansotia.

UNITS

Manager, Rare Earths Division, Alwaye : C. M. Mani ; *Chief Administrative Officer*, Minerals Division, Quilon : S. Ganapathy ; *Dy. Works Manager*, Thorium Factory, Trombay : G. K. Kelkar.

Indian Telephone Industries Ltd., Dooravani Nagar, Bangalore 560016, Mysore State. (Under the Dept. of Communications, Govt. of India).

Regional Offices, Sales & Service : 62/63, " Advent ", 12-A, Gen. J. R. Bhosale Marg, Bombay 400001 ; United India Life Assurance Bldgs., 22, Chittaranjan Ave., Calcutta 700013 ; 3, Tolstoy Marg, New Delhi 110001 ; Kannamia Bldgs., 122, Mount Rd., Madras 600006.

The factory manufactures all kinds of telecommunication equipment, all kinds of telephones, transmission equipment, testing equipment, automatic road signalling equipment, etc.

A second factory — New Transmission Factory, Naini Unit — has started functioning. Another unit for manufacture of telephone instruments is also being set up at Naini. A small unit for manufacture of spare parts for telephone instruments set up at Srinagar went into production in 1971.

The turnover of the company for the year 1971-72 increased to Rs. 335 million from Rs. 260 million in the previous year.

The company is expected to make a gross profit of Rs. 45 million as compared to Rs. 38 million during the previous year.

Exports : The total value of exports during the year amounted to Rs. 3·2 million as compared to Rs. 5·0 million in the previous year.

Ancillary Units : The total production of ancillary units set up under its guidance amounted to Rs. 0·89 million during 1971–72.

Personnel (March 31, 1972) : I.T.I. had 14,816 employees as against 14,342 in the previous year.

Chairman & Mg. Director : I. K. Gupta ; *Gen. Manager (Production) :* B. K. Anantharaman ; *Gen. Manager (Technical) :* C. S. S. Rao.

Instrumentation Ltd., Kota 324005 (Rajasthan).

The largest manufacturers of Industrial Process Control Instruments in India. The product-mix of the company includes a variety of sensors & transmitters, indicating, controlling & recording instruments for the measurement of temperature, pressure, flow, level and other process variables in different measuring systems such as magneto-electric, electronic, ferrodynamic and the pneumatic range of products.

The company provides specialised turn-key services of instrumentation to steel plants, thermal power stations, fertilizer and chemical based plants and other process industries.

Managing Director : Brig. B. J. Shahaney.

Integral Coach Factory, Perambur, Madras 600038. (Under the Ministry of Railways).

This factory was constructed in 1952 in collaboration with Swiss Car and Elevator Manufacturing Corporation Limited, Schlieren, Zurich, Switzerland.

The factory meets the major requirement of passenger coaches of the Indian Railways. It consists of two divisions, Shell and Furnishing. The output is 700 coaches per annum. By 1973–74 it is hoped to increase the outturn to 750 coaches. So far the factory has turned out 8,984 shells and furnished 6,984 coaches.

The factory has so far exported bogies to Burma, Thailand, Taiwan and Zambia.

The annual turnover is approximately Rs. 190 million. The total number of employees on rolls is 12,700.

General Manager : K. Vaidyanath.

Iron Ore Board, Min. of Steel & Mines, Udyog Bhavan, New Delhi 110011.

An autonomous organisation set up by the Govt. of India to ensure proper regulation, conservation and development of iron ore. It will co-ordinate the activities of the steel plants and mining agencies in both the public and private sectors and will also create an infra structure for iron ore mining in liaison with railways, ports, State Governments and financial institutions.

Chairman : R. C. Dutt.

Jayanti Shipping Co., Ltd., Shipping House, 229/232, M. Cama Rd., Bombay 400001.

Mg. Agents : The Shipping Corpn. of India Ltd., Steelcrete House, 4th fl., D. Wacha Rd., Bombay 400020.

Kolar Gold Mining Undertakings, Kolar Gold Fields, Oorgaum P.O., Mysore State.

Formerly a British company the mines were taken over by the Government of India on 1st December 1962.

Bharat Gold Mines Pvt. Ltd. took over the management on 1st April, 1972 in order to step up production. (See under Bharat in this list.)

No. of workmen as on 31-3-1972 : 13,380.

The gold production during 1971-72 was 2,264,487 grammes worth Rs. 18·960 million at I.M.F. rate.

Lubrizol India Ltd., (*See Petroleum Industry*).

Machine-Tool Prototype Factory, Ambernath. (Under the Ministry of Defence).

Estd. 1953. The Factory, apart from meeting vital defence requirements, nitriding jobs and testing works, has established production of several types of precision machine tools.

General Manager : J. K. Agarwala.

Madras Fertilizers Ltd., Manali, Madras 600019.

Objects : To manufacture and market ammonia, urea and complex fertilizers within installed plant capacity of 750 tonnes, 885 tonnes and 1,100 tonnes per day respectively

Mandhar Cement Factory, Mandhar, Near Raipur, Madhya Pradesh.

The project cost Rs. 50 million and it employs 650 persons.

Mazagaon Dock Ltd., Mazagaon, Bombay 400010. (Under Ministry of Defence.)

A ship-building, ship-repair and general engineering concern.

The company can build various types of ships — like frigates, passenger ships, passenger-cum-cargo ships, dredgers, tugs, barges, trawlers, etc. — up to 145 metres length, 24 m. breadth and 15,000 tons dwt. It has four building berths, three dry docks and an impounded wet dock.

The first leander class frigate I.N.S. Nilgiri has been delivered to the Navy. The second and third frigates are under construction and order for three more frigates have been placed by the Navy. The company has also built for the Navy a bucket dredger, two inshore minesweepers, two *Avcat* tankers (designed to carry aviation fuel) and several other ships.

The company's production turn-over rose from Rs.107·1 m. in 1968-69 to Rs. 214·5 m. in 1971-72. The estimated production during 1972-73 is Rs. 239·0 m.

Chairman and Mg. Director : Admiral S. M. Nanda; *Secretary/Commercial Manager :* Cdr. N. K. Sawhney, I.N.

Mining and Allied Machinery Corpn. Ltd., P.O. Durgapur, West Bengal; *Calcutta Office :* 77, Park St., Calcutta 700016.

Mg. Director : A. C. Chatterjee ; *General Manager :* S. R. Bose ; *FA & CAO* : T. Gopalakrishnan.

Modern Bakeries (India) Ltd., C-8, Pashchimi Marg, Vasant Vihar, New Delhi 110057.

The authorised capital is Rs. 10 million. The sales turnover during 1971-72 is Rs. 59 million.

It was registered in October, 1965 and has bakery units at Ahmedabad, Bangalore, Bombay, Calcutta, Cochin, Delhi, Hyderabad, Kanpur and Madras. The capacity of each unit is about 30,000 loaves of 400 grams per day excepting those of Bombay and Calcutta where the rated capacity is 60,000 loaves of 400 grams per day.

All the bakery products produced by the Company are fortified with Vitamin A, Vitamin B Complex (Riboflavin, Thiamine & Niacin), Iron and Protein Isolate. The net profit for the year 1971-72 was Rs. 5·3 million as compared to Rs. 0·8 million during 1970-71.

Chairman : Malik Mohmad Mushir Ahmed Khan ; *Mg. Director :* Brig. C. C. Uthup.

Mogul Line Ltd., 16, Bank St., Bombay 400001.

Pilgrim Booking Office : Nos. 4 & 5, Mahomed Haji Saboo Siddick Musafirkhana, Carnac Rd., Bombay 400001.

Operates Haj pilgrim service between Bombay and Jeddah, regular cargo-cum-passenger service between Bombay and Red Sea ports, Bombay and West Asia Gulf ports, cruises to Malaysia and Singapore, coastal cargo services and overseas tramp service.

Chairman : C. P. Srivastava ; *Mg. Director :* J. G. Saggi.

Nahan Foundry Ltd., Nahan, Sirmur District, Himachal Pradesh.

Production consists of improved type of sugar cane crushers, bullock as well as power driven, mono-block pumps, electric motors from 3 h.p. to 15 h.p. and C. I. castings to buyers specifications.

National Dairy Development Board, Anand 388001.

To speed up the overall development of milk production, procurement, processing and marketing in the country, the Board offers (*a*) technical services for development of dairy and allied projects ; (*b*) man-power development services ; (*c*) bulk procurement services ; (*d*) specialised dairy engineering services ; (*e*) consultation services on dairy and allied operations and (*f*) international liaison.

Chairman : Dr. V. Kurien.

National Instruments Ltd., 1/1, Raja S. C. Mullick Rd., Jadavpur, Calcutta 700032. (Under the Ministry of Industrial Development).

This company manufactures and repairs at its Instruments Plant at Jadavpur, Calcutta, precision instruments of all types.

National Newsprint & Paper Mills Ltd., (Nepanagar, Nimar Dist., Madhya Pradesh).

The yearly rated capacity of the first and the second Paper Machine is 30,000 tonnes and 37,500 tonnes respectively. The production during 1971-72 was 40,040 tonnes valued at Rs. 50·613 million.

There were 2,063 workers as on March 31, 1972.

Neyveli Lignite Corpn. Ltd., Neyveli 607801, South Arcot Dist. (Ministry of Steel & Mines.)

This is a Rs. 1,880 million project. The Integrated Project envisages the mining ultimately of about 6 million tonnes of lignite per annum, the present rate being about 4·5 million tonnes per annum.

The Urea Plant at Neyveli is the biggest of its kind in the world and the first to gasify lignite to produce Urea.

The Briquetting and Carbonisation Plant at Neyveli produces carbonised briquettes, a smokeless domestic fuel from lignite.

The following tar products are also produced in the B & C plant : tar, neutral oil, carbolic acid (phenol), ortho cresol, meta-para cresols, xylenols and polyvalent phenols.

Optical Glass Plant

Central Glass and Ceramic Research Institute, Calcutta 700032.

The pilot plant located at the Institute produces the major types of optical glass required in the country.

The plant has so far supplied optical glass worth more than Rs. 4·5 million to consumers.

Pyrites, Phosphates & Chemicals Ltd., *Registered Office :* Dr. Joseph House, Canal Rd., Dehri-on-Sone, Shahabad Dist., Bihar.

Branch Offices : (*i*) Mining Project, P.O. Amjhore, Shahabad Dist., Bihar. (*ii*) Office of the Resident Representative, D-21, N.D.S.E., Part-II, New Delhi 110049. (*iii*) Office of the Assistant Purchase Officer, No. 9, Syed Amir Ali Ave., Fourth Fl., Calcutta 700017. (*iv*) Office of the Project Officer, Exploratory-cum-Production Mining Project, Saladipura, P.O. Khandela, Sikar Dist., Rajasthan. (*v*) Exploratory Mining Project. Maldeota Phosphate Deposit, 90-D, Race Course, Dehra Dun (U.P.).

Mining Programme : *Pyrites :* (*i*) The mine at Amjhore has been developed to be able to produce 400 tonnes per day of pyrites to feed the acid plant at Sindri. During the year 1971-72 the sulphuric acid production from pyrites alone was 31,000 tonnes.

(*ii*) Exploratory-cum-production mining at Saladipura has been undertaken which will block out nearly 3 million tonnes of pyrite ore and provide necessary data for drawing up feasibility report and detailed project report for a major fertilizer complex to be set up in Rajasthan. The scheme is expected to be completed soon. The Company has appointed Messrs. RTZ Consultant Ltd., as consultants.

Rock Phosphate : Exploratory mining work is being conducted at Maldeota in the district of Dehra Dun (U.P.). It will provide necessary data to find out economic viability to exploit this rock phosphate deposit.

During 1971-72 about 900 tonnes of rock phosphate were produced.

Mg. Director : Vacant ; *Secretary :* V. Ramaratnam.

Rajasthan Atomic Power Project, (*See under " Atomic Energy."*)

Salem Steels Ltd. ; Rly. West Colony, Salem 636005.

To implement the Rs. 3,400 million Salem Steel project to manufacture 195,000 tonnes of sheets and stripes comprising 70,000 tonnes of stainless steel, 75,000 tonnes of electrical steel and 50,000 tonnes of special steel.

Mg. Director : V. Subramaniam.

Scooters (India) Ltd., P. B. 23, Lucknow 226001.

Shipping Corpn. of India Ltd., *Registered Office :* "Steelcrete House", D. Wacha Rd., Bombay 400020.

Branch Offices : CALCUTTA : Nilhat House, 11, R. N. Mukherjee Rd., Calcutta 700001 ; NEW DELHI : Chandralok Bldg., 1st Fl., Janpath, New Delhi 110001 ; MOMBASA: Renmar House, Kilindini Road, Mombasa ; LONDON : 37-39, Time St., London, EC3M 7AY.

Number of vessels : Cargo vessels 55, passenger-cum-cargo 5, bulk carriers 6, timber carrier 1, bulk coal carriers 3, tankers 6. Total 76.

Total g.r.t. : 862,538 d.w.t.

The net profit for the year 1971–72 was Rs. 75 million as compared to Rs. 69·10 million in the previous year.

Chairman & Mg. Director : C. P. Srivastava, I.A.S.

Steel Authority of India Ltd. (SAIL), Min. of Steel & Mines, Udyog Bhavan, New Delhi 110011.

A holding company set up by the Govt. of India for steel and associated input industries with, among others, the following objects :—

1. To plan, promote and organise an integrated and efficient development of the iron and steel and associated input industries such as iron ore, coking coal, manganese, limestone, refractories, etc.
2. To co-ordinate the activities of its subsidiaries to determine their economic and financial objectives/targets and to review, control, guide and direct their performance for optimal utilisation of all resources thereof.
3. To act as an entrepreneur on behalf of the State and to identify new areas of economic investments.
4. To formulate and recommend to the Govt. a national policy for the development of iron and steel and related input industries and to advise it on all policy and technical matters.

Chairman, M. A. Wadud Khan ; *Full-time Directors,* M. P. Wadhawan (*Finance*), A. C. Banerjee (*Technical*), Dr. N. C. B. Nath (*Commercial*) ; *Secretary,* A. R. Sankaranarayanan.

Tarapore Atomic Power Project, (*See under " Atomic Energy ".*)

Trade Development Authority, Bank of Baroda Bldg., 16, Parliament St., New Delhi 110001. (Under the Ministry of Foreign Trade).

Established to promote selective development of exports of non-traditional products. In discharge of this function, TDA identifies technically competent and commercially viable production units in large, medium and small sectors in the country, assist in the expansion of export oriented production facilities, undertake product development/adaptation and help raise the technological levels of selected industrial exports.

Its current product range includes selected engineering, plastics and consumer items while the market range covers USA, Canada, U.K., Western Europe and Japan.

Executive Director : A. C. Banerjee.

Triveni Structurals Ltd., Naini, Allahabad.

It is a joint enterprise of Government of India and Messrs. Voest, Linz, Donau, Austria. The main products of the works are as under :—

Building structures, towers, bridges, pressure vessels, penstocks and storage tanks, crucibles, blast furnace and plate work; hydraulic structures ; cranes, mechanical equipment.

Tungabhadra Steel Products Ltd., P.O. Tungabhadra Dam (Bellary Dist., Mysore).

Production : Steel structures, including gates, hoists, gantries, penstocks for river valley projects, cranes, pressure vessels & galvanised trasmission line towers.

A galvanising plant with a capacity of 3,000 tonnes per annum working in a single shift has been commissioned. The company has its own design branch, grey iron foundry, rubber seal section, X-ray and photographic section.

It has entered into a collaboration agreement with Messrs. Est. Neyrpic, Grenoble, France for the designing and fabrication of hydraulic gates.

STATE-OWNED OR STATE-AIDED

ANDHRA PRADESH

Agro Subsidiary Ltd., 10–2–3, Intekhabmanzil, A.C. Guards, Hyderabad 500004.

A marketing organisation set up by the A. P. State Agro Industries Corpn. Ltd. with the chief object of standardising oil engines and electric motor pump sets manufactured in the State and arranging their supply to the farmers at competitive rates. It also offers good after-sales service facilities to the loanees.

Mg. Director : P. S. Rajagopalaraju.

Andhra Pradesh Paper Mills Ltd., *Regd. Office :* Rajahmundry.

Administrative Office : Shreenivas House, Hazarimal Somani Marg, Fort, Bombay-400001.

The present production capacity is 180 tonnes per day. The production of the Mills is mainly writing, printing and wrapping papers.

Government Ceramic Factory, Gudur, Nellore Dist.

The factory produces sanitaryware and L.T. Electrical Insulators. During the year 1970–71 the production was 641 tonnes valued at Rs. 0·698 million.

Indo-Nippon Precision Bearings Ltd., Moula Ali, Hyderabad 500040.

Established in 1964 by the Govt. of Andhra Pradesh to manufacture ball, taper & cylindrical roller bearings including railway journal bearings in collaboration with Koyo Seiko Co. Ltd., Osaka (Japan). The factory was inaugurated in Aug. 1970. Presently, it produces 1·080 million pcs. of bearings against the licensed capacity of 2·678 million pcs. per annum and is expected to attain full production by the end of 1973.

Mg. Director : S. G. Madhavan.

Praga Tools Ltd., 6–6–8/32, Kavadiguda Road, Secunderabad 500003.

The Company produces machine tools and allied accessories, precision tools, forgings for auto and diesel spares and rail-road components, defence items, etc.

Republic Forge Co., Ltd., Moula Ali, Hyderabad 500040.

The Company manufactures precision drop forgings for railways, automobiles, tractors, industrial engines and other engineering industries.

Singareni Collieries, Meher Manzil, Red Hills, Hyderabad 500004.

Coal is mined from the coal fields at Kothagudem, Yellandu, Rudrampur, Belampalli, Mandamari, Ramakrishnapur and Ramagundam.

Production of coal during 1971-72 was 4·70 million tonnes as against 4·05 million tonnes in 1970-71.

ASSAM

Aseb Meter Works, Short Round Road, Shillong.

An Assam State Electricity Board enterprise. Manufactures single phase house service meters and polyphase meters.

Assam Cements Ltd., Mawmluh, Cherrapunjee, Assam.

The Company has set up its factory at Cherrapunjee for manufacture of Portland Cement with a capacity of 250 tonnes per day. Expansion of the factory which is expected to be completed by 1974 will increase the capacity to 930 tonnes per day.

Assam Gas Co., Ltd., Shillong (Assam).

Aims and Objects : Utilisation and distribution of natural gas available from the oil and gas fields in Assam as feedstock for petrochemical industries and as industrial and domestic fuel. Distribution of liquefied petroleum gas for domestic, commercial and industrial purposes.

Jyoti Chitraban (Assam Government Film Studio), Kahilipara, Gauhati.

The basic objective is to encourage private film producers to undertake production of indigenous films at the minimum cost. A substantial part of the project has been completed.

The total expenditure involved in the execution of this project amounts to Rs. 1·5 million approximately.

BIHAR

Bihar State Superphosphate Factory, P.O. Sindri Institute, Dhanbad Dist. (Bihar).

Installed capacity of plants : (*i*) 10 tonnes of single superphosphate per hour ; (*ii*) 25 tonnes of 98 per cent sulphuric acid per day.

At present the factory produces about 18,000 tonnes of superphosphate a year.

Electric Equipment Factory, Tatisilwai, Ranchi.

This factory is a unit of the Bihar State Industrial Development Corporation Ltd.

High Tension Insulator Factory, P.O. Namkum, Ranchi 834010, Bihar.

This factory has been set up by the Government of Bihar with the technical collaboration of Czechoslovakia. The present installed capacity is 2,400 metric tonnes per annum with the varying range of production as transmission line insulators upto 220 KV, bushings and Pin & Post insulators upto 33 KV besides L.T. Pin, Shackles and Guy insulators.

HARYANA

Haryana Breweries Ltd., Flat No. 4 & 5, Sector 17-A, Chandigarh. (*Works :* 49th KM Stone, G.T. Rd., Murthal (Sonepat)).

This project is being set up with Danish co-operation to manufacture beer with facilities to produce malt spirit at a later stage.

Mg. Director : J. D. Sharma, I.A.S.

HIMACHAL PRADESH

Himachal Government Rosin & Turpentine Factory, Nahan (H.P.).

From crude rosin, the factory manufactures turpentine oil and rosin of international repute. The gum of pine trees is obtained from forests of Himachal Pradesh.

Gen. Manager : M. S. Dod, I.F.S.

JAMMU & KASHMIR

Council of Scientific & Industrial Research,

Drug Research Laboratories, Raj Bagh, Srinagar.

The present production and the sales effected are valued at Rs. 0·6 million and Rs. 0·7 million respectively.

Drug Research Laboratories (Factories & Farms), (CSIR), Canal Road, Jammu Tawi.

Belladonna concentrated extracts, belladonna consumer goods, *i.e.*, belladonna plaster etc., dissogenin, menthol and dementholised oil, Pyrethrum Oleoresin cedarwood oil, ergot seclerotia, hyoscyamine, xanthoxine and total alkaloids of belladonna.

Government Silk Weaving Factory, Raj Bagh, Srinagar.

Biggest silk weaving factory in India producing quality silk fabrics out of 100 per cent pure univoltine Kashmir silk.

The total production is 0·35 million metres per year.

Government Woollen Mills (Srinagar, Kashmir).

The average monthly production on the basis of 1962-63 working is — cloth 211,220 metres and yarn 205,920 kg.

J. & K. Minerals Ltd., The Bund, Srinagar.

The undertaking has so far set up a cement factory, a prestressed concrete factory and a thermal power station in the State. It is also mining coal in the State, and has taken up investigation of rayon grade pulp project, almuna refractory project, glass factory, precipitated chalk factory, etc.

Mg. Director : Dr. T. G. K. Charlu, I.A.S.

KERALA

Kerala Ceramics Ltd., P.O. Kundara, Kerala.

The Company consists of three working units.

Unit I, The new Porcelain Factory producing porcelain crockery, and low tension electrical insulators. *Unit II* and *Unit III,* China Clay Mines producing refined china clay of various grades, including paper coating clay.

Kerala Electrical & Allied Engg. Co., Ltd., Mamala P.O., Cochin (Kerala).

This Company has three Manufacturing Divisions.

A. MAMALA WORKS

1. *Transformer Division :*—The unit is equipped to manufacture transformers upto 1500 kva, 33 kv with annual output of 120,000 kva. Now the range of manufacture is extended upto 3,000 kva. Transformers of special nature, rectifier, furnace etc. are also manufactured as per customers' requirement.

2. *Structural Division :*—Design, fabrication and erection of all types of steel structures for industrial building, power houses etc. Vertical gates, radial gates, pressure gates, sluice gates including hoist mechanism and lifting gantries, lock gates and screw geared shutters, crane structures etc., galvanised transmission line towers, M. S. Pipes and special storage tanks, etc.

B. KUNDARA DIVISION

1. Electric Motors 1·5 HP to 10 HP screen protected and totally enclosed fan cooled types; 2. Centrifugal pumps including special high discharge de-watering pumps; 3. Electrical wiring accessories viz. tumbler switches, fuse units, cutouts etc.; 4. Bakelite mouldings; 5. C.I. pipes and specials and G.I. castings weighing upto 1·5 tonnes; 6. Pole line hardwares like stay rods, cross arms etc.

Fertilizers and Chemicals, Travancore Ltd., Udyogamandal, Kerala.

(See chapter on Fertiliser Industry).

Chalakudy Potteries Ltd., Railway Station Rd., Chalakudy.

Estd.: 1969. The factory was inaugurated on 14th August 1971 for the manufacture of refractories. Production capacity is now being raised to 1,000 tonnes per month from 300 tonnes originally proposed. Main products are pouring refractories, insulation bricks, etc.

Chairman : P. S. Namboodiri; *Mg. Dir.,* T. A. Sidharthan.

Kerala Premo Pipe Factory Ltd., P.O, Puthenthura, Quilon Dist.

Registered Office : Puthenchantai, Trivandrum 695001.

In this factory prestressed high and low pressure concrete pipes and R.C.C. pipes are manufactured for water supply, drainage and irrigation. It also produces power transmission poles and mosaic tiles. The factory can design and manufacture special purpose reinforced concrete or prestressed concrete articles.

Kerala Soaps & Oils Ltd., West Hill, Calicut 673005.

The Company consists of 3 units viz. Soap Division, Oil Division and Hydrogenation Division.

Chairman and Mg. Director : M. K. Pillai.

Kerala State Financial Enterprises Ltd., XX/137, Leela Baugh, Civil Lines Rd., Trichur-680004.

Conducts chit funds to cater to the public and also conducts hire purchase financing under which durable consumer articles such as motor vehicles, refrigerators, sewing machines, bicycles, fans, radios, pump sets, etc. are made available to the public at reasonable rates of interest. It has branches in important towns of the State.

Mg. Director : K. Bharathan.

Pallathra Bricks & Tiles Ltd., P.O. Kochuramapuram, Shertallay, Kerala.

The object of the Company is to produce and distribute sand lime bricks, a new architectural brick of high strength and finish. The designed capacity of the factory is 44,000 bricks per working day of 16 hours.

Traco Cable Co., Ltd., Irimpanam, Ernakulam.

The company manufactures and deals in all kinds of wires and cables.

Future plan: To make paper insulated (dry core) telephone cables; PVC insulated jumper wires, switchboard wires; and, multicore telephone cables.

Travancore-Cochin Chemicals Ltd., P.O. Udyogamandal, Kerala.

Only public sector Caustic Soda Unit in the country—Established in 1952. The daily licensed production capacity of the factory is 100 tonnes of rayon grade caustic soda, 10 tonnes of sodium hydrosulphite, 4 tonnes of iron-free sodium sulphide, 180 tonnes of hydrochloric acid and 30 tonnes of liquid chlorine. The expansion programme which will double the existing capacity is expected to be completed by the end of 1974.

Chairman: T. Madhava Menon, I.A.S.; *Mg. Director:* Cheeran V. Mathews.

Travancore Plywood Industries Ltd., Punalur, Kerala 691305.

The installed capacity of the factory after commencing production in the new unit is 1·28 million sq. metres of plywood panels per annum in single shift.

Annual turnover is Rs. 6 million.

Travancore Titanium Products Ltd., Kochu Veli, Trivandrum 695021 (Kerala).

The factory is the only unit in India producing titanium dioxide pigments, an important intermediate for paint, rubber and many other consumer products. It has now a production capacity of 18 tons per day.

Trivandrum Rubber Works Ltd., Chackai, Trivandrum 695007.

Trivandrum Spinning Mills Ltd., Balaramapuram. Equipped with modern superhigh draft machinery for 25,200 spindles and 800 spindles of doubling frames, this mill manufactures quality yarn of counts varying from 20s to 100s in hanks and cones.

United Electrical Industries Ltd., Pallimukku, Quilon.

The company at present manufactures electricity meters, motor starters and switchgears. Plans are also under way to manufacture magneto generators, electronic components, series regulators, road traffic signalling units and hearing aids.

General Manager : Joseph Lopez.

MADHYA PRADESH

Madhya Pradesh Laghu Udyog Nigam Ltd., 23, New Shopping Centre, New Market, T. T. Nagar, Bhopal 462003.

The Nigam has undertaken the following activities :—

(1) Procurement and distribution of scarce and controlled materials.

(2) Sale of handloom and handicraft products, through 15 emporia and participation in exhibitions and export promotion.

(3) Exports of handloom, handicraft products and engineering goods.

(4) Construction of industrial estates, rural work sheds and development of industrial areas.

Managing Director : G. K. Seth.

MAHARASHTRA

Government Bacon Factory, National Park, Borivli, Bombay 400066.

The Government of Maharashtra has established a bacon factory with a capacity to slaughter 100 pigs a day. The total capital investment on this factory including buildings, equipment and vehicles etc. is about Rs. 5·222 million.

The factory produces canned meat, bacon, ham and sausages.

Regional Pig Breeding Station, Borivli, Bombay 400066.

This Station supplies exotic pigs of Landrace and Yorkshire breeds to individual breeders and cooperatives. The station undertakes breeding of pigs under scientific methods.

Manganese Ore (India) Ltd., 3, Mount Road Extension, Nagpur 440001.

This Company was set up in collaboration with Manganese Ore Company Limited, U. K.

The Manganese Ore (India) Ltd. operates the manganese mines in Nagpur, Bhandara and Balaghat districts.

The output and sales including export of all grades of manganese ore during 1971–72 were 303,230 and 300,013 tonnes respectively valued at Rs. 34·50 million. The total number of workers employed by the company at different mines is 13,305.

MYSORE

Government Central Industrial Workshop (Mysore Road, Bangalore 560026).

Annual outturn : Rs. 3·00 million. No. of persons employed : 305.

The workshop is engaged in general engineering works such as manufacture of structurals to specifications, concrete mixers, insulator pins, dryer carts, wheel barrows, inter cooler unit, cold blender, bobbins, road rollers, copper alloy and sliding bearing plates, hand mixers etc.

Government Electric Factory (P. B. 2610, Mysore Rd., Bangalore 560026).

Main products : Transformers in various sizes, mathematical and survey instruments, motor pump sets, fans and trailers. Annual turnover Rs. 15·0 million. No. of persons employed : 900.

General Manager : M. N. Viswanatha Shetty.

Government Sandalwood Oil Factory, Mysore 570008. Factories at (1) Mysore, (2) Shimoga.

Production : 1971–72 : Quantity 180,070 kgs. of Sandalwood oil valued at Rs. 27,758,250. No. of persons employed : 330.

Government Soap Factory, P. B. 1031, Bangalore 560012.

Annual outturn for 1971-72 : 4,472 m. tonnes valued at Rs. 35·50 million. No. of persons employed : 298.

Hutti Gold Mines Co., Ltd., P.O. Hutti (*Via* Raichur-Deccan)

The current production is at the rate of 220,000 tonnes of ore treated per annum with a recovery of 1,600 kg. of gold.

Production will be further expanded by about mid 1973, when 290,000 tonnes of ore would be treated per annum for a recovery of about 1,930 kgs. of gold.

Mahaboob Shahi Kulburga Mills Co., Ltd., Gulbarga.

The mill runs 24,000 spindles and 528 looms with processing and printing section. Under the modernisation scheme it is proposed to install about 5,000 spindles more.

Mysore Chrome Tanning Co., Ltd., Mysore Rd., Bangalore 560026.

The company manufactures all kinds of chrome upper leathers, sole leathers, besides manufacturing leather goods.

Mysore Iron & Steel Ltd., Bhadravati, Shimoga Dist.

It is an integrated steel plant producing alloy and special steels, ferro-silicon, steel castings, grey iron castings, refractory bricks etc.

The Company employs 11,000 persons.

Chairman : Chandappa Patel, I.A.S. ; *Mg. Director and Vice Chairman :* S. K. Warrior, I.A.S.

Mysore Government Silk Weaving Factory, Mananthody Rd., Mysore 570004.

Annual outturn : Rs. 3·5 million. Number of persons employed : 268.

The factory is engaged in the manufacture of high grade 100 per cent re-reeled pure silk fabrics.

Mysore Implements Factory, Hassan.

Annual outturn : Rs. 4 million. No. of persons employed : 315.

The factory has been mechanised for mass production of implements.

The capacity of the factory is being increased to Rs. 10 million per annum, by the end of IVth Plan period.

Mysore Industrial Areas Development Board, Adm. Office Bldg., Ind. Estate, Rajajinagar, Bangalore 560044. (Estd.: 1966) *Objectives :* (1) To develop industrial areas by providing infrastructural facilities ; (2) to establish, maintain, develop and manage industrial estates ; The Board's activities at present cover the areas near or around Bangalore, Mangalore, Kalamuddana Doddi, Mysore-Belagola, Nanjangud, Shimoga-Bhadravati, Ranebennur, Harihar-Davangere, Hubli-Dharwar, Dandeli, Karwar, Gokarna, Belgaum & Hospet.

Chairman : M. D. Shivananjappa, I.A.S.

Mysore Lac & Paint Works Ltd., P.B. 82, Mysore 570001.

The factory manufactures paints, varnishes, duplicating inks, sealing wax and other allied products.

Chairman & Mg. Director : S. Sanjeeviah.

Mysore Minerals Ltd., No. 67/2, Lavelle Rd., Bangalore 560001.

This company deals with mining and marketing of the following minerals: Iron ore, manganese ore, china clay, aluminous clay, chromite, asbestos, soapstone and limestone.

The total sales by the company during the year 1971–72 amounted to Rs. 8·938 million.

The company provides employment for over 1,900 people per day.

Mysore Porcelains Ltd., P.B. 1245, Science Institute Post, Bangalore 560012.

The company manufactures H. T. & L. T. Electro-Porcelain Insulators and accompanying metal parts. It has facilities for the manufacture of 7,500 tonnes per annum of these items, and employs about 1,500 persons. The company has plans to manufacture Silicon Carbide lumps and Beryllium Oxide.

N G E F Ltd., Byappanahalli, Bangalore 560038.

Main products: (*i*) Transformers upto 40,000 kva and voltages upto 132 kv to an aggregate of 1,000,000 kva per annum, per single shift. (*ii*) *Motors:* Upto 1500 Hp both in LT and HT upto 6·6 kv to an aggregate of 480,000 Hp per annum, per single shift. (*iii*) *Switchgear:* Low oil content circuit breaker upto 11 kv, Air circuit breakers, HT and LT switchboards, drum type switches, cast iron distribution boards, load break switches, hrc fuses etc. of the value of about Rs. 12 m. per annum, per single shift. (*iv*) Silicon diodes for power rectification: Current rating 700 ARMS, reverse voltage upto 2·6 kv. Present product on capacity upto 20,000 pieces per annum per single shift.

Radio & Electricals Manufg., Co., Mysore Rd., Bangalore 560026.

The Company manufactures valve and transistorised radio receivers & allied components; Plastic insulated wires & cables; single & polyphase electricity meters; water meters; wave change switches; paper, electrolytic and polyester capacitors; loudspeakers; community radio receivers and lightning arresters.

ORISSA

Cuttack Iron & Steel Products Ltd., Ind. Estate, Cuttack 753003.

The company manufactures fabricated steel goods. It undertakes all types of fabrication work. Its products can be divided into three categories: (1) Heavy Goods: (2) Semi-Heavy Goods: (3) Light Goods.

Orissa Board Mills Ltd., P.O. Jagatpur Dist. Cuttack (Regd. Office: Meria Bazar, Cuttack 753001).

This is a pilot project company of the Government of Orissa. The mills produce monolithic quality straw boards and mill boards from 16 oz. to 48 oz.

Rourkela Fabrications Ltd., Ind. Area, Rourkela 769004.

The factory manufactures quality steel window, angle roof trusses, purlins, all steel screw gear shutters, falling shutters and for any type of structurals heavy, medium and light.

Turn-over for 1971–72: Rs. 0·8 million.

Spark Battery Manufg., Works Ltd., Ind. Estate, Cuttack 753003.

Mg. Director: N. C. Pradhan.

RAJASTHAN

Gangasagar Sugar Mills Ltd., Hi-Tech Glass Division, Dholpur.

The company manufactures Hi-Tech. brand neutral laboratory glasswares and bottles.

TAMIL NADU

Cinchona Department, Nilgiri and Anamalais.

Engaged in the cultivation of cinchona, and manufacture and sale including export of quinine products.

Continuous Casting Plant, Arkonam.

In collaboration with Machieoexport, Moscow, to manufacture initially 50,000 tonnes of steel billets per annum and ultimately 1,00,000 tonnes from mild steel scrap.

Government Mechanised Brick Plant, Thirumazhisai, Madras 600056.

A project costing Rs. 7 million to produce 66,000 bricks per day.

Government Tea Project, Hill Cottage, Coonoor 643102 (Nilgiris).

Started in 1968 with the object of rehabilitating the Ceylon repatriates. It envisages the raising of 1517 hectares of tea in the Nilgiri Dist. over a period of nine years under a Govt. of India loan.

Madras Fertilizers Ltd., Manali, Madras 600068.

Objects: To manufacture and market ammonia, urea and complex fertilizers with installed plant capacity of 750 tonnes, 885 tonnes, and 1,100 tonnes per day respectively. The Fertilizer Plant is at Manali, Chingleput District, Madras.

Pandian Chemicals Ltd.,

Pilot Cement Plant, Dalmiapuram. (Dt. Tiruchi).

Conducting research to promote the sale of 75/150 tonnes capacity per day cement plants. It is the first shaft-kiln plant on a new fuel mix process.

Southern Borax Ltd., Minjur (Rs. 7·5 million project to manufacture 15,000 tonnes of borax and 3,000 tonnes of boric acid per annum).

Tamilnadu Aluminium Florides & Chemicals Ltd.,

Registered just now to implement the various industrial schemes in the joint sector for which licences have been obtained.

Tamilnad Cements, P.O. Alangulam, Via Rajapalayam, Ramanathapuram District.

Functions: Manufacture and Sale of ordinary Portland Cement.

General Manager: A. Balraj, I. A. S.

Tamilnad Chemical Products Ltd., Karaikudi.

(To manufacture 3,300 tonnes of sodium hydrosulphate per annum with Japanese collaboration).

Tamil Nadu Chromates and Chemicals Ltd. Madras.

(Rs. 7·5 million project to manufacture 6,400 tonnes of BCT powder per annum).

Tamil Nadu Rubbers Ltd., Tirupattur.

(Rs. 120 million project to manufacture 3 million automobile tyres and 3 million tubes per annum).

Tamil Nadu Synthetic Fibres Ltd.

Tuticorin Alkali Chemicals Ltd., Tuticorin.

To produce 66,000 tonnes each of soda ash and aluminium chloride.

Wool Processing Centre, Vinnamangalam, North Arcot District.

Processes tannery wool/hairs to meet the requirements of drugget, carpet and felt manufacturers of India and abroad. The production capacity is 600 tonnes per year.

UTTAR PRADESH

Government Cement Factory, Churk, Mirzapur.

The plant's present rated capacity is 1,400 tonnes of cement per day. Production of cement during 1971–72 was 362,735 tonnes.

There are 1,901 persons working in the factory and 1,175 persons in the quarries.

Government Precision Instruments Factory, Lucknow, P. B. 153.

The factory produces watermeters of 15 mm, 20 mm and 25 mm sizes, microscopes, and pressure gauges in various ranges and depth gauges.

Indian Turpentine & Rosin Co., Ltd., P.O. Clutterbuckganj, Bareilly.

From crude rosin, the company manufactures turpentine and rosin of international repute. The gum of pine trees is being obtained from the Kumaon and Tehri forests of U.P. It is also manufacturing Ester Gum and Rubber Emulsifier from Rosin.

WEST BENGAL

Bharat Opthalmic Glass Ltd., Durgapur-10.

Durgapur Projects Ltd., Registered Office : Administrative Building, Durgapur Burdwan.

Calcutta Office : 1, Shakespeare Sarani, Calcutta 700016.

Products : B. P. Hard Coke, Nut Coke, Benzene, Industrial Toluol, Motor Benzol, Light Solvent Naptha and Lux Mas.

Tar Products : Carbolic oil, Naphthalene oil, Crude Naphthalene, Anthracene oil, Timber Pickling oil, Sodium Phenolate, Road Tar (No. 3 & 4).

Electro-Medical & Allied Industries Ltd., 4/2, B. T. Rd., Calcutta 700056.

The Company manufactures X-Ray & Electro-Medical equipment in technical co-operation with Picker X-Ray Corpn., U.S.A.

Mg. Director : A. K. Mitra, I.A.S. (Regd.).

Kalyani Spinning Mills Ltd., 67, Bentinck Street, Calcutta 700001.

Works : Kalyani, Nadia Dist., and Ashokenagar, 24-Parganas Dist.

Range of Production : Cotton yarn from 20s to 100s carded and combed, singles and doubles, in hanks and cones—for handlooms, powerlooms and hosieries.

Installed capacity : 75,160 spindles. Production during 1971–72 : 1,566,590 kgs.

ALL INDIA CORPORATIONS

Agricultural Finance Corpn. Ltd., Dhanraj Mahal, Chatrapati Shivaji Maharaj Marg, Bombay 400001.

Branches : Patna, Raipur, Kota and Tuticorin. The Corporation extends project financing for various irrigation schemes, and project consultancy services to commercial banks, State Govts., institutions and individuals for undertaking techno-economic surveys, pre-investment surveys, project analysis and formulation and follow-up studies and evaluation.

Chairman : Prof. M. L. Dantwala ; *Mg. Director :* B. Rudramoorthy ; *Secretary :* V. K. Sheth.

Agricultural Refinance Corpn., Shrineketan, Dr. A. Besant Rd., P.B. 6552, Worli, Bombay 400018.

Objects : It is primarily a refinancing agency and its object is to provide financial accommodation of a medium-term or long-term nature to the various special schemes of agricultural development which cannot be satisfactorily financed by the existing credit agencies either on account of the volume of funds involved or the terms and conditions of repayment or because the projects as such cannot be brought within the normal rules of business under which the land mortgage banks, state co-operative banks and scheduled commercial banks are functioning.

Chairman : Dr. R. K. Hazari ; *Mg. Director* K. Madhava Das.

Cashew Corpn. of India Ltd., P. B. 1261, M. Gandhi Rd., Cochin 682011. (Regd. Office : 'Chandralok', 36, Janpath, New Delhi 110001).

A subsidiary of S.T.C., through which imports of raw cashewnuts are now being canalised. It ensures uninterrupted supply of raw nuts and has also effected economies in commission, freight and insurance leading to considerable savings in foreign exchange. The entry of the Corporation has brought about the much-needed rationalisation of the trade and has reversed the rising trend of costs of imports.

Chairman and Mg. Director : Z. K. Joseph.

Cement Corpn. of India Ltd., 'Herald House', 5-A, Bahadur Shah Zafar Marg, New Delhi 110001.

It was incorporated in January 1965. Its main objectives are to set up cement factories in various parts of the country and to survey and prospect for limestone deposits in the country. So far it has proved 14 limestone deposits suitable for setting up cement plants. A cement plant at Mandhar, M.P., with a capacity of 200,000 tonnes per year, is in production since July 1970. The second unit of the Corporation at Kurkunta, Mysore, is in production since August 1972. Preliminary work for its third and fourth plants have been started at Bokajan, Assam and Paonta, Himachal Pradesh. In addition, the Corporation also offers consultancy services.

Mg. Director : K. N. Misra.

Central Inland Water Transport Corpn. Ltd., Regd. Office : 4, Fairlie Place, Calcutta 700001.

The Company was incorporated in February, 1967. Its main activities at present include : (*i*) Ship-building, ship repairing and general engineering at its Rajabagan Dockyard ; (*ii*) River transport at Calcutta and from Calcutta to Assam *Via* Bangladesh ; (*iii*) Automobile repairs and truck and bus body-building at Kulpi Workshops ; (*iv*) Stevedoring, lighterage, river conservancy and bunkering and supply of fresh water to deep sea vessels etc. ; (*v*) Dredging ; (*vi*) Tea warehousing at Calcutta.

Mg. Director : K. Srinivasan.

Central Road Transport Corpn. Ltd., 4, Fairlie Place, Calcutta 700001.

Main Function : To supplement the road transport capacity in the eastern sector of the country. The Corporation has a fleet of about 287 Leyland and TMB trucks. In the western sector the company has to serve the Food Corporation of India for movement of foodgrains, fertilisers and packing materials with 174 "gift trucks" belonging to the Government of India.

Chairman : Vacant ; *Mg. Director :* K. Srinivasan.

Central Warehousing Corpn., C-90, New Delhi South Extn. Part II, New Delhi 110049.

The main aims and objects of the warehousing scheme are :—(*i*) To help storage of agricultural produce and other commodities as are declared to be "Notified Commodities" by the Central Government. (*ii*) To assist the depositors to secure cheap credit, avoid distress sales and sell his produce as and when the market is favourable to him. (*iii*) to undertake disinfestation service outside its warehouses and also (*iv*) to act as agent for the purposes of purchase, sale and distribution of agricultural produce.

By the end of March, 1972 the total built up capacity owned by the Corporation was 848,276 tonnes including two cold storages of 600 and 1,200 tonnes capacity at Hyderabad and Calcutta respectively.

State Corpns. :— The State Governments have with the approval of the Central Warehousing Corporation established a Warehousing Corporation in each State.

The 15 S. W. C. had, by the end of 1972, set up 639 warehouses, including 39 sub-warehouses and a cold storage with a total storage capacity of 2·05 million tonnes including owned built up capacity of 360,790 tonnes.

Profit (1971–72) : Rs. 10·03 million.

To augment warehousing facilities the State and Central Warehousing Corporations have decided to spend Rs. 180 million during the Fourth Plan.

Chairman : G. W. Momin ; *Mg. Director :* Rajinder Singh.

Cotton Corpn. of India Ltd., Air India Bldg., 12th Fl., Nariman Point, Bombay 400001.

The Corporation was set up in September, 1970, to handle imports of cotton consequent upon canalisation of cotton imports through a public sector agency. The Corporation serves as an agency for purchase, sale and equitable distribution of domestic cotton and cotton imported from abroad as well. Through this Corporation import of staple fibre has also been canalised.

Chairman : R. S. Panjahazari ; *Mg. Director :* N. S. Kulkarni.

Credit Guarantee Corpn. of India Ltd., Vidyut Bhavan, 3rd Fl., B.E.S.T. Bldg., Pathakwadi, Bombay 400002.

Promoted in January 1971 by the Reserve Bank of India. It guarantees loans and other credit facilities extended to (*i*) by scheduled commercial banks to small traders, farmers and self-employed persons ; (*ii*) by scheduled Commercial banks and State Financial Corporations to small transport and business enterprises and (*iii*) by scheduled commercial banks and certain State and Central Co-operative banks to service Co-operative Societies assisting their members who are engaged in industrial activity.

Chairman : Dr. R. K. Hazari ; *Manager :* W. J. F. Vaz ; *Secretary :* R. Vijayaraghavan.

Deposit Insurance Corpn., 'Vidyut Bhavan', Pathakwadi, Bombay 400002.

Aims and objects : To give a measure of protection to depositors, in particular to small depositors, from the risk of loss of their deposits in the event of a bank's inability to meet its liabilities.

The Corporation provides insurance to the extent of Rs. 10,000 to a depositor in respect of all deposits held by him in an insured bank in the same right and capacity.

Every commercial bank functioning in India and every eligible Co-op. bank functioning in the states of Maharashtra, Madhya Pradesh, Andhra Pradesh and the Union Territory of Goa, Daman and Diu to which the Deposit Insurance Scheme has so far been extended, is registered as an insured bank with the Corporation and all its depositors get the protection afforded by the Corporation.

The Corporation has a capital of Rs. 15 million held by the Reserve Bank and Deposit Insurance Fund of Rs. 209·68 million.

Chairman : S. Jagannathan, Governor of the Reserve Bank of India.

Electronics Corpn. of India Ltd., Ind. Development Area, Cherlapalli, Hyderabad 500040.

The Company is under the Department of Atomic Energy.

Main activities : To manufacture and sell Nuclear and allied instruments /systems, electronic test and measuring instruments, ultrasonic flaw detectors, closed Circuit. Television systems, commercial television receivers, degital and analog computers. Resistors—metal film, carbon film. Tantalum capacitors single turn, multiturn and trimming potentiometers. Silicon semi-conductor devices such as power transistors, rectifiers, zener diodes. microwave test equipment and components control instrumentation for atomic power plants and A. C. gear motors, synchronous motors, synchro transformers/transmitters.

Export Credit & Guarantee Corpn. Ltd., Express Towers, 10th Fl., Nariman Point, Bombay 400001.

Object : To facilitate the growth of India's export trade by providing credit insurance cover to Indian exporters and furnishing guarantees to banks in order to assist Indian exporters to get credit facilities necessary for expanding their export trade.

Secretary : N. Chandrasekharan.

Fertilizer Corpn. of India., (See under "Govt. Ind. Undertakings").

Film Finance Corpn. Ltd., "White House", 91, Walkeshwar Rd., Bombay 400006. (For details see chapter on Film Industry).

Food Corpn. of India., 1, Bahadur Shah Zafar Marg, New Delhi 110001.

Its aims are to provide the farmer an incentive price for his produce, supply quality foodgrains to the consumer at reasonable prices and build a national reserve of foodgrains.

FCI today has 4 zonal offices, one each at Bombay, Calcutta, Delhi and Madras, 16 regional offices, over 134 district offices and over 1000 storage centres. The employees belonging to different categories number over 40,000.

The purchase and sales turnover of FCI for 1971–72 were Rs. 8,511·40 million and Rs. 7,904·70 million respectively.

FCI has 9·1 million tonnes of storage capacity.

FCI is setting up 24 modern rice mills at various rice-producing centres in the country. Sixteen mills have been commissioned in Haryana, Tamil Nadu, Andhra Pradesh, Punjab, Orissa, Kerala and Uttar Pradesh. The programme aims at improving the quality and outturn of rice, and extraction of oil from rice bran. FCI has set up a solvent extraction plant in Madhya Pradesh.

The Corporation has an authorised capital of Rs. 1,000 million. The working capital as on 31-3-1972 stood at Rs. 5,712·80 million.

Chairman : R. N. Chopra ; *Mg. Director :* J. A. Dave, I.A.S.

Handicrafts & Handlooms Exports Corpn. of India Ltd., Lok Kalyan Bhavan, 11A, Rouse Ave. Lane, New Delhi 110001.

The Corporation undertakes export of handicrafts and handloom goods, with the main object of introducing new items and exploring new markets.

The Corporation has Sona retail shops in New York, Boston, Paris, Nairobi and New Delhi. It has a carpets warehouse in Hamburg. It has a branch office in Madras, and regional offices in Bombay and Calcutta.

Hindustan Paper Corpn., Ltd., Regd. Office: Chanakya Bhavan, Chanakya Puri, Vinay Marg, New Delhi 110021. *Main functions:* To establish newsprint, paper and pulp factories in the public sector. The authorised capital of the corporation is Rs. 300 million. Registered in May, 1970 the Corporation is likely to set up four plants. Two of these plants will be located in Assam each with a capacity of producing 80,000 tonnes of paper per year. Another plant will be set up in Nagaland with an annual capacity of 30,000 tonnes of paper. The fourth project, a newsprint mill will be situated in Kerala at Velloor near Vaikom in Kottayam District with a capacity of 75,000-80,000 tonnes production per annum.
Chairman: Abid Hussain; *Mg. Director:* N. B. Das Gupta.

Hotel Corpn., of India Ltd., Air India Bldg., 13th Fl., Nariman Point, Bombay 400001.

The Corporation, which is a wholly-owned subsidiary of Air India, aims at carrying on the business of hotels and restaurants and providing lodging and boarding facilities for the public including tourists with a view to promoting tourist trade. At present, it operates two flight kitchens at Bombay and New Delhi. Plans are also afoot for the construction and operation of one 180 room luxury class hotel at Santa Cruz Airport and another 350 room hotel at the Juhu Beach.

Chairman: Air Marshall M. S. Chaturvedi; *Directors:* S. K. Kooka, R. N. Kaul, K. K. Unni, C. V. R. Rao, and Smt. S. Jagannathan.

Housing & Urban Development Corpn., Ltd., 12-A, Jamnagar House, New Delhi 110011.

Estd. April 1970 with an authorised capital of Rs. 100 million. The Corporation is expected to build up a corpus of Rs. 2,000 million by raising loans from institutional sources and through open market operations.

Objects: To finance or undertake housing & urban development programmes in the country, and also setting up of new or satellite towns and building material industries etc. So far it has approved loans for 34 projects for about Rs. 480 million in eleven states to provide houses and plots to about 350,000 persons in one year of its active operation. Over 120 other projects have been received from State Govts./State Housing Boards for financial assistance.
Chairman: Keshub Mahindra; *Mg. Director:* Vinod V. Parekh.

Indian Motion Pictures Export Corpn., Ltd., (Regd. Office), 5th Fl., 'D' Shiv Sagar Estate, Dr. A. Besant Road, Worli, Bombay 400018. (For details see chapter on Film Industry).

Indian Petrochemical Corpn., Ltd., P. O. Jawaharnagar, Vadodara Dist. (Gujarat).

Corporation's first Petrochemicals operations near Vadodara consist of the Rs. 250 million Gujarat Aromatics Project and the Rs. 310 million Gujarat Olefins Project are likely to go on stream by the end of 1973 and 1974. The above two projects are located adjacent to the Gujarat Refinery. Agreements in respect of seven other projects have already been signed with foreign collaborators recently.

The Corporation's authorised capital is Rs. 300 million.
Chairman and Mg. Director: J. J. Mehta.

India Tourism Development Corpn., Ltd., Jeevan Vihar, 3, Parliament St., New Delhi 110001.

The Corporation provides a range of tourist services throughout the country: accommodation, transport, entertainment, tourist literature and duty free shops. In Delhi, it runs hotels Ashoka, Akbar, Janpath, Lodhi and Ranjit; in Bangalore, hotel Ashoka; in Udaipur, Laxmi Vilas Palace Hotel and in Kerala, Kovalam Palace Hotel. In addition the corporation has two motels at Hassan and Jammu, 17 travellers lodges and 10 restaurants in different parts of the country. Airport duty-free shops are at Bombay, Calcutta, Madras and Delhi.
Chairman & Mg. Director: M. S. Sundara.

Indian Dairy Corpn., 7th Fl., Yashkamal Bldg., Lokmanya Tilak Rd., Vadodara 390005.

Object: To promote milk marketing and dairy development in the country.

The Corporation was set up by the Government of India to execute the WFP assisted project "Operation Flood" on behalf of the Government. The project has a duration of five years and aims at improvement of milk marketing and dairy development by enabling the organised dairy sector to obtain a commanding share of the markets in the four major cities of Bombay, Calcutta, Delhi and Madras. The funds expected to be generated by the Corporation are estimated at Rs. 954·00 million and will be utilised to accelerate action in the field of milk marketing and dairy development during the five-year period.

The Corporation functions in close co-operation with the National Dairy Development Board, Anand who are the technical consultants to the Corporation.

Industrial Credit & Investment Corpn., of India Ltd., 163, Backbay Recl., Bombay 400020.

Object: To assist industrial enterprises in the private sector by providing finance in both rupee and foreign currencies in the form of long or medium-term loans or equity participations, sponsoring and under-writing new issues of shares and securities, guaranteeing loans from other private investment sources, furnishing managerial, technical and administrative advice to Indian industry.

Resources: Share Capital—Rs. 100·00 million. Reserves — Rs. 97·60 million. Borrowings: Rupee Currency — Rs. 548·00 million. Foreign Currency — Rs. 2,177·90 million. Industrial Assistance: Total sanctions upto end 1971 — Rs. 3,337·50 million.
Mg. Director: Siddharth S. Mehta.

Industrial Development Bank of India., Post Box No. 1241, New India Centre, 17, Cooperage, Bombay 400001.

Was set up in July 1964 as a wholly-owned subsidiary of the Reserve Bank of India in terms of the Industrial Development Bank of India Act, 1964; (a) to co-ordinate the activities of other financial institutions (including banks); (*b*) to supplement their resources; (*c*) to plan and promote industries of key significance to the industrial structure, and (*d*) to adopt and enforce a system of priorities in promoting future industrial growth.

The Bank has also initiated regional surveys jointly with the Industrial Credit and Investment Corporation of India Ltd., the Industrial Finance Corporation of India and the Reserve Bank, to identify industrial potential in the backward areas.

The IDBI has regional offices at Calcutta, Madras and New Delhi and small branch offices at Cochin, Chandigarh, Patna, Gauhati, Bhopal, Bangalore, Jammu, Hyderabad, Kanpur and Bhubaneswar; the Bank proposes to establish branch offices at other State capitals also.
Chairman: S. Jagannathan; *Vice-Chairman:* V. V. Chari.

Industrial Finance Corpn., of India, *Head Office:* Bank of Baroda Bldg., 16, Parliament St., New Delhi 110001.

I.F.C. supplies medium and long-term capital to public limited companies and co-operative societies incorporated and registered in India. Public sector projects which are set up as public limited companies can also receive assistance from the Industrial Finance Corporation. Financial assistance, on concessional terms, is available for setting up industrial projects in less developed States and Union Territories notified by the Central Government. Its activities include :—

(*a*) Granting of loans in rupees and foreign currencies; (*b*) Guaranteeing deferred payments for machinery imported from abroad or purchased in India; (*c*) Guaranteeing foreign currency loans raised from foreign financial institutions or rupee loans raised from Scheduled Banks or State Co-operative Banks and (*d*) Subscribing to and underwriting of equity, preference and debenture issues.

Chairman : C. D. Khanna; *General Manager :* Baldev Pasricha.

Industrial Reconstruction Corpn., of India Ltd., 19, N. Subash Rd, (2nd Fl.), Calcutta 700001.

The Corporation has been set up jointly by the Govt. of India, Reserve Bank of India and other leading financial institutions as well as commercial banks in the country. It aims at promoting industrial development of the country through establishment, maintenance, development, expansion, re-organisation, diversification, rationalisation, modernisation of industrial concerns. Initially it has restricted its activities to the rehabilitation of sick and closed industrial units.

Chairman : R. C. Dutt; *Mg. Director :* C. T. Das; *General Manager :* T. Tiwari.

Jute Corpn., of India Ltd., 1, Shakespeare Sarani, Calcutta 700016.

Started functioning from Sept. 1971. *Objects :* (*i*) to undertake price support operations in respect of raw jute. (*ii*) to ensure remunerative prices to the growers through judicious commercial operations and improvements in the marketing of raw jute. (*iii*) to operate a buffer stock in raw jute in order to stabilise the prices of raw jute. (*iv*) to undertake import and export of raw jute and (*v*) to export jute goods and undertake their export promotion.

Chairman : Dwaipayan Sen; *Mg. Director :* S. N. Chakravartee.

Machine Tool Corpn., of India Ltd., Beawar Rd., Ajmer.

Under this project, a total of 680 Grinding Machines and a large variety of special accessories at full rated capacity valued at about Rs. 44 million are expected to be manufactured every year. This Company's plant will provide employment to approximately 1,700 persons and will also give plenty of scope for the development of ancillary industries in and around Ajmer.

Chairman : Dr. S. M. Patil; *General Manager :* R. N. Malhan.

Metal Scrap Trade Corpn., Ltd., Shah House, P-34, India Exchange Place, Calcutta 700001.

Mineral Exploration Corpn., C/o Indian Bureau of Mines, Nagpur 440001.

Functions : To carry out detailed mineral exploration throughout the country and also to assess the grade-wise mineral resources of the country.

Mg. Director : S. P. Nautiyal.

Minerals & Metals Trading Corpn., of India Ltd., Express Bldg., 9 & 10, Bahadur Shah Zaffar Marg, New Delhi 110001.

The Corporation undertakes export of minerals and ores d import of steel, non-ferrous metals, fertilizers and fertilizer raw materials; its internal trade comprises of supplies of iron and manganese ores to the Hindustan Steel Ltd.

The Corporation has six Regional Offices in India and one in Japan.

Chairman : S. Ramachandran.

National Bldgs., Construction Corpn., Ltd., 44, Ring Rd., Lajpat Nagar III, New Delhi 110024.

(Under the Ministry of Works & Housing).

Objects : (*a*) to improve the quality of construction works; (*b*) to bring down construction costs; (*c*) to take up construction work in border areas and inaccessible places where private contractors quote fancy rates; and (*d*) to take on the responsibility for supervising the works in such a way that the clients reduce their supervisory engineering personnel so as to bring down the ultimate construction costs.

During 1971-72 the Corporation has executed works of the order of Rs. 51·87 million and has shown a net profit of Rs. 1·30 million.

The Corporation has set up a mechanised brick plant in Delhi to produce over 40 million bricks per year.

Mg. Director : P. P. Dharwadker.

National Coal Development Corpn., Ltd., Darbhanga House, Ranchi.

Its operations extend to five states viz. Bihar, Madhya Pradesh, Orissa, Uttar Pradesh and Maharashtra.

N. C. D. C. has at present 35 collieries with an annual production of 14·37 million tonnes. It employs 68,629 persons. At present the Corporation has four coal washeries — one at Kargali in operation and two at Sawang and Kathara have been commissioned and the fourth at Gidi has yet to be commissioned. By the end of the Fifth Plan in 1978-79 the Corporation proposes to achieve a built-in-capacity of 13·65 million tonnes of coking coal and 31·42 million tonnes of non-coking coal, totaling 45·07 million tonnes. The corporation has two Central electrical and mechanical workshops at Barkakana, Bihar and Korba, Madhya Pradesh and one coke oven plant at Giridih.

National Co-operative Development Corpn., C56, South Extn. II, New Delhi 110049.

Functions : To plan and promote programmes for the production, processing, marketing, storage, export and import of agricultural produce and notified commodities through cooperative societies. In this connection, the Corporation is specifically empowered to undertake the following activities :—

(*a*) to advance loans or grant subsidies to State Governments for financing cooperative societies and for employment of staff for implementing programmes of cooperative development;

(*b*) to provide funds to State Governments for financing cooperative societies for the purchase of agricultural produce and notified commodities on behalf of the Central Government; and

(*c*) to plan and promote programmes, through cooperative societies for the supply of seeds, manures, fertilisers, agricultural implements and other articles for the development of agricultural produce.

National Industrial Development Corpn., Ltd., P.B. 5212, Chanakya Bhavan, Vinay Marg, New Delhi 110021.

Main functions of the Corporation are to render Consultancy Engineering Services by way of detailed design and engineering of complete projects and preparation of detailed project reports. The services of the Corporation are being made use of by the Central Government, various State Governments, public sector enterprises and private entrepreneurs in India. Its services have also been availed of by the United Nations, foreign governments and entrepreneurs abroad. The Corporation has also been acting as the Agency of the Government for grant of loans to cotton textiles, jute and machine tools industries for modernisation and rehabilitation.

Mg. Director : R. K. Sethi.

National Mineral Development Corpn., Ltd., Mukarramjahi Rd., Hyderabad 500001.

Administrative Ministry : Ministry of Steel and Mines.

Functions : To exploit minerals in the public sector, excluding copper, coal, lignite, oil and natural gas, and for this purpose, the Corporation may purchase, take on lease or otherwise acquire mines for prospecting and developing, and work them for producing minerals.

The following projects have so far been assigned to the Corporation :

(*i*) Kiriburu Iron Ore Project, Kiriburu (Bihar); (*ii*) Diamond Mining Project, Panna (Madhya Pradesh); (*iii*) Bailadila Iron Ore Project, Deposit No. 14 (Madhya Pradesh) ; (*iv*) Bailadila Iron Ore Projects, Deposit No. 5 (Madhya Pradesh); (*v*) Donimalai Iron Ore Project (Mysore State) ; and (*vi*) Iron Ore at Kundremukh (Mysore State).

Chairman : G. Ramanathan.

National Projects Construction Corpn. Ltd., E9, Defence Colony, New Delhi 110024.

(Under the Union Ministry of Irrigation & Power).

Main object : To provide the Central and State Governments with an organisation capable of undertaking the execution of River Valley Projects and allied Civil Engineering works requiring high technical skill, strict adherence to specifications and quality standards.

Chairman-cum-Mg. Director : Brig. K. U. K. Pandalai.

National Research Development Corpn., of India, 61, Ring Rd., Lajpat Nagar III, New Delhi 110024.

Main function : To stimulate development and commercial exploitation of patents and inventions arising from national research efforts and also patented inventions from individuals.

The Corporation also develops scientific research by arranging pilot plant and instituting developmental projects. Till March 1972, the Corporation has instituted 24 projects at a cost of about Rs. 7 million.

Chairman : M. S. Pathak ; *Mg. Director :* Dr. C. V. S. Ratnam.

National Seeds Corpn., Ltd., F44-A, South Extn. Part I, New Delhi 110049.

Under the Ministry of Agriculture, Govt. of India.

National Seeds Corporation is responsible for organising a sound seed industry in India ; concentrates on production of foundation seed of promising varieties evolved by research. N. S. C. arranges seed testing, organises seed production training courses and develops distribution channels for supply of seed to largest sections of Indian farming community through its distributors, agencies and its own units.

Chairman : Deo Rao S. Patil ; *Mg. Director :* A. J. S. Sodhi.

National Small Industries Corpn., Ltd., Near Ind. Estate, Okhla, New Delhi 110020.

Main objects : To assist, counsel, finance and promote the interest of small industries in the country.

The activities of the Corporation fall under two broad categories viz. (*a*) Promotional or developmental and (*b*) Commercial. The promotional activities include operation of Government Purchase Scheme, under which the Corporation maintains liaison with DGS & D, Railways, and Posts and Telegraph Department in order to assist small scale industries in procuring Government contracts ; management of the Naini Industrial Estate and the administration of the Prototype Development & Training Centres at Okhla, Rajkot and Howrah. The commercial activities relate to supply of machines on hire-purchase basis and marketing operations.

National Textile Corpn., Ltd., 8th Fl., Surya Kiran Bldg., 19, Kasturba Gandhi Marg, Curzon Rd., New Delhi 110001.

Main object : To manage textile mills which may be taken over under the Industries (Development & Regulation) Act, 1951 and under the Silk Textile Undertakings (Taking over of Management) Ordinance, 1972. So far 57 mills have been taken over by the Govt. under the Industries (Development & Regulation) Act and in addition 46 mills were taken over recently under the Silk Textile Undertakings (Taking over of Management) Ordinance, 1972.

Chairman : K. P. Tripathi.

Projects & Equipment Corpn., of India Ltd., Chandralok, 36, Janpath, New Delhi 110001.

Formed in April, 1971, as a subsidiary of the State Trading Corporation of India with complete autonomy in its marketing and commercial operations.

Objects : To coordinate and give point to the export of engineering, industrial and railway equipment from India ; to undertake turnkey job abroad and to co-ordinate efforts of public and private sector industries and help them with marketing opportunities abroad, tendering and negotiations, finance and foreign exchange, procurement of raw materials, quality control, delivery schedules, etc. The turnover in 1971-72 was Rs. 382 million and it is expected to go upto Rs. 700 million in 1972-73.

Chairman : P. Sahai ; *Exec. Directors :* L. K. Dhawan, Maj. Gen. S. P. Vohra.

Rehabilitation Industries Corpn., Ltd., 25, Free School St., Calcutta 700016.

Principal object : To create employment opportunities through industries for the displaced persons from Bangla Desh and to the migrants from West Pakistan (who have entered Indian territory as a result of the recent conflict with Pakistan), repatriates from Burma & Ceylon and persons of Indian origin migrated from other countries with the intention of permanently settling in India.

Chairman : D. K. Bose.

Rural Electrification Corpn. Ltd., D-5 South Extn. Part II, P. B. 3823, New Delhi 110049.

The main objects for which the Corporation is established are :—(*i*) To finance rural electrification schemes ; (*ii*) To subscribe to special rural electrification bonds that may be issued by the State Electricity Boards ; (*iii*) To promote and finance rural electric co-operatives ; (*iv*) To administer the funds received from the Government of India and other sources as grants or otherwise.

Chairman : B. Venkatappiah ; *Mg. Director :* M. M. K. Wali.

State Farms Corpn., of India Ltd., A-21, West End Colony, Rao Tula Ram Marg, New Delhi 110021.

The Corporation was set up in May, 1969, to take over the administration of Central State Farms set up primarily for the production of seeds of foodgrains, fibre crops, plantation crops, oil seeds, vegetables, fruits etc. Apart from the production of quality seeds particularly of high yielding varieties of wheat, paddy, maize, bajra and jowar, the farms also render the following services :—

(*i*) Custom service to private farmers for land levelling, land shaping and soil conservation work on their lands,

(*ii*) Repair and servicing of private tractors at the farm workshops,

(*iii*) Consultancy service for the benefit of individuals, farms and institutions wanting advice on mechanisation of farms.

The area under operation and ultimate total area in hectares are as follows : Suratgarh 12,274 ; 12,274 ; Jetsar 4,000 ; 5,310 ; Ladhowal 1,093 ; 1,093 ; Raichur 2,945 ; 3,035 ; Hissar 2,780 ; 3,237 ; Cannanore 1,520 ; 5,000 ; Lokichera 140 ; 400 ; Chengam 800 ; 4,000 ; Kokilabari 216 ; 2,000.

Chairman : M. R. Krishna ; *Mg. Director :* P. S. Appu (Acting).

State Trading Corpn., of India Ltd., Chandralok, 36, Janpath, New Delhi 110001.

The central aim of the Corporation is to broaden and enlarge the scope of Indian exports and to arrange for essential imports on an economical basis.

The Corporation's export increased by Rs. 240 million from Rs. 741 million in 1969-70 to Rs. 980 million in 1971-72. The imports increased from Rs. 1,540 million to Rs. 2,220 million. The total turn over comes to Rs. 3,320 million. Net profit during 1971-72 was Rs. 170 million as compared to Rs. 72 million in 1970-71. At present S.T.C. has 18 offices abroad.

Chairman : V. V. Parekh.

Tannery & Footwear Corpn., of India Ltd., 13/400, Civil Lines, Kanpur.

The Corporation has two factories at Kanpur. It commenced production in June 1969 and makes leather of all types, such as chrome and bark leather, calf, kid and chamois leather ; leather products for use in textile industry such as picking bands and picker savers ; ankle boots for the Armed Forces and Police, miners' safety boots, civilian footwear which is marketed under the brand name 'FLEX', footwear for export, mountaineering boots, skiing and skating boots; a large variety of leather goods including gloves, suit cases, brief cases, hand bags, etc; leather board, rubber components for shoes such as soles and heels; shoe finishes and adhesives such as polish lacquer, Flexobond cement and myrobalan extract powder for tanning and water purification.

The Corporation has the capacity to manufacture about two million pairs of footwear per shift per annum and has a network of distributors and retail dealers all over India for the sale of its products.

Mg. Director : S. L. Atal.

Unit Trust of India, *Head Office :* Bombay Life Building, 45, V. Nariman Rd., Bombay 400001.

The Trust pools the savings of the community and invests them in securities of various types. To pool the savings, the Trust sells 'units'. All units rank equal for the distribution of income, regardless of when they are acquired. The Trust offers one other important and unique advantage ; it is always ready both to sell and buy its units at prices published by it. A Unit holder is thus assured complete liquidity for his investment.

Some Salient Features : Besides the Trust's offices at Bombay, Calcutta, Delhi and Madras, units are on sale at over 11,000 branches of leading banks and at over 18,000 post offices throughout the country. Units can also be obtained through 334 'approved' brokers on the recognised stock exchanges and 3,070 individual agents appointed so far, by the Trust.

The Trust is exempt from payment of income-tax and other taxes on income.

Chairman : James S. Raj ; *Executive Trustee :* S. D. Deshmukh.

Uranium Corpn. of India Ltd., P.O. Jaduguda Mines, Singhbhum, Dist. Bihar.

It is a wholly-owned Government of India enterprise under the Department of Atomic Energy. Its objectives are to provide the Uranium requirements for the Atomic Energy Programme of the country. The Corporation is to mine and process Uranium Ore and other ores and minerals containing Uranium in any form.

STATE CORPORATIONS

Andhra Pradesh Ind. Development Corpn. Ltd., B-1-174, Fateh Maidan Rd., Hyderabad 500004 (Andhra Pradesh).

Authorised Capital : Rs. 100 million.

Principal Functions : Providing financial assistance ; underwriting of new issues of shares and securities ; participating in share capital of new industrial projects with or without controlling interest ; promoting industries directly ; acting as holding company for specific projects ; providing technical assistance and guidance ; undertaking surveys and appraisal reports ; arranging technical collaborations.

The total amount of financial assistance sanctioned since inception *i.e.* 16th December 1960 is Rs. 73·386 million.

Mg. Director : M. Venkataratnam, I.A.S.

Andhra Pradesh Mining Corpn. Ltd., 11-5-401/1, Red Hills, Hyderabad 500004.

Objects : Prospecting and exploitation of some of the important minerals in the State. Setting up of mineral based industries with the collaboration of private sector wherever desirable and possible.

Andhra Pradesh Small Scale Ind. Development Corpn. Ltd., B-1-174, Fateh Maidan Rd., Hyderabad 500004.

Activities : Development of small scale industries by joint participation ; establishment of technocrats' industrial estates and craftsmen guilds under 'Self-employment' scheme ; distribution of scarce raw materials to small scale units in the State.

Chairman : C. Madhav Reddi ; *Mg. Director :* C. Srinivasa Sastry, I.A.S.

Andhra Pradesh State Agro-Industries Corpn. Ltd., Intekhab Manzil, 10-2-3, A.C. Guards, Hyderabad 500004.

This corporation is primarily engaged in land-shaping and drilling of bore wells. At present the corporation is in possession of 257 crawler tractors, 100 wheeled tractors and 59 power drills.

Other activities of the corporation include distribution of diesel engines and electric motor pump sets through a subsidiary known as Agro Subsidiary Limited and distribution of G. C. and G. P. sheets to the cultivators.

Andhra Pradesh State Financial Corpn., 5-9-194, Chirag Ali Lane, Hyderabad 500001.

Objects : Financial assistance to all medium and small-scale industries, hotel industry (Tourist hotels only), transport industry (road transport of goods) established within the State.

Chairman : Maddi Sudarsanam ; *Mg. Director :* O. Swaminatha Reddy.

Assam Agro-Industries Development Corpn. Ltd., Gauhati 781007.

Objects : To assist progressive farmers in modernising their cultivation by rendering services in respect of repairs of agricultural machinery and equipments, and to provide farm machinery on rent to those farmers who cannot purchase the same ; to assist in efficient distribution of all agricultural inputs like farm machinery and implements, pesticides, plant protection equipments, chemicals, etc. ; to set up workshops for manufacturing and repairing of farm machinery and equipments ; to undertake setting up of and to assist entrepreneurs in setting up agro-based industries and to provide them with technical guidance for the efficient conduct of their enterprises. The activities of the corporation cover the States of Assam, Meghalaya and Nagaland and the territories of Tripura, Manipur, Arunachal Pradesh and Mizoram.

Mg. Director : Jatin Hazarika.

Assam Financial Corpn., 'Glenerquart', Shillong.

Aims and Objects : To contribute to the industrialisation of the State of Assam, Tripura and Manipur by providing credit (medium and longterm) to industrial concerns.

Mg. Director : K. P. Barooah.

Assam Govt. Construction Corpn. Ltd., Shillong (Assam).

Objects : To construct, execute, carry out, improve, work, develop, administer, manage or control in Assam and elsewhere works of all kinds and to do other business.

Assam Industrial Development Corpn. Ltd.,Kannachal Rd., Silpukhuri, Gauhati 781003.

Objects : To promote industries by planning and implementing major and large industrial projects and rendering assistance including share participation to other industrial organisations and entrepreneurs. Currently, the corporation has undertaken the implementation of 1. Petro-Chemical Complex at Namrup, 2. Caustic Soda/Chlorine Plant at Jagighopa, 3. Sugar Mill at Cachar, 4. Power-tiller Factory, 5. Cigarette Factory and 6. Nylon Filament Yarn Plant.

Mg. Director : D. N. Barua.

Assam Small Industries Development Corpn. Ltd., Bamunimaidan, Gauhati 781021.

Assam State Warehousing Corpn., Shillong.

Bihar State Agro-Industries Development Corpn. Ltd., Nageshwar Colony, Boring Rd., Patna.

To promote, develop, establish, execute, operate and otherwise carry out projects, schemes, industries, business and activities which in the opinion of the company is likely to accelerate and increase agricultural production ; contribute to the production of subsidiary and supplementary food ; increase availability of supplies of food whether principal, ancillary, supplementary or substitute, in particular in the State of Bihar.

Mg. Director : P. K. Sinha.

Bihar State Financial Corpn., Fraser Rd., Patna 800001.

Objects : To provide financial assistance, chiefly by way of long and medium-term loans, to industrial concerns in the State.

Chairman : Ambika Saran Singh ; *Mg. Director :* M. C. Subarna.

Bihar State Industrial Development Corpn. Ltd., Punaichak, Patna 800001.

Objects : Setting up, managing and giving financial assistance to the industrial undertakings in the medium and large scale sectors. The company has at present four factories under operation :—(*i*) Bihar State Superphosphate Factory at Sindri, which produces superphosphate and sulphuric acid ; (*ii*) High Tension Insulator Factory at Ranchi, which produces high and low tension electric insulators ; (*iii*) Electric Equipment Factory at Tatisilwai, Ranchi and (*iv*) Bihar Spun Silk Mills at Bhagalpur.

Chairman : D. P. Singh ; *Mg. Director :* B. B. Lal.

Bihar State Small Industries Corpn. Ltd., B.C.I. Bldg., East Gandhi Maidan, Patna 800004.

Activities : Regular manufacturing of small industries products like bicycles, auto-batteries, locks, agricultural implements, wooden furniture, hosiery goods, roofing tiles, potteries, mechanical toys, leather and leather goods, aluminium utensils, cottage industries and handicrafts products and their marketing.

Bihar State Textbook Publishing Corpn. Ltd., White House, Budh Marg, Patna 800001.

It looks after the work of preparation, production and distribution of nationalised school textbooks, and also ensures timely supply of quality textbooks at low price to the school students of the State.

Mg. Director : Mahesh Prasad Narayan Sharma.

Delhi Financial Corpn., Saraswati Bhavan, E-Block, Connaught Place, New Delhi 110001.

To stimulate industrial growth the corporation advances medium- and long-term loans to industrial organisations set up or to be set up in the Union Territories of Delhi and Chandigarh.

Chairman : T. N. Chaturvedi, I.A.S. ; *Mg. Director :* Kaushal Kumar, I.A.S.

Goa, Daman & Diu Industrial Development Corpn., Panaji 403001.

Gujarat Agro-Industries Corpn. Ltd., Khet Udyog Bhavan, Opp. High Court, Navrangpura, Ahmedabad 380014.

Aims and Objects : To promote enterprises for the manufacture of agricultural inputs ; to promote industries for processing, preservation and distribution of agricultural products ; to distribute farm machinery for processing various products as also for dairying, poultry, fishery and allied industries ; and to provide managerial and technical guidance for setting up agro-based industries and operating them efficiently.

Chairman : Dr. Devshibhai Patel ; *Mg. Director :* H. K. Khan, I.A.S.

Gujarat Export Corpn. Ltd., Udyog Bhavan, Behind Natraj Theatre, Ranchhodlal Marg, G.P.O., 290, Ahmedabad 380009.

Objects : Facilitating, promoting and expanding export trade of products manufactured in Gujarat.

Provides assistance like marketing, finance, raw materials, etc. for the export trade.

Mg. Director : B. H. Raval.

Gujarat Industrial Development Corpn., Fadia Chambers, Ashram Rd., Navrangpura, Ahmedabad 380009.

Functions : (1) To promote and assist growth and development of industries, (2) to establish and manage industrial estates at places selected by the State Government, (3) to assist financially by granting loans to industries and (4) to undertake schemes of work either singly or jointly with other corporate bodies or institutions, Government or local authorities.

Chairman : Jayantilal Bhikhabhai.

Gujarat Industrial Investment Corpn. Ltd., Natraj Chambers, Ashram Rd., Ahmedabad 380009.

Functions : Promoting industrial development and investment ; participation in the equity/preference capital sponsoring and underwriting new issues of shares and debentures etc. ; offering long- and medium-term loans for fixed assets of new industry or expansion ; capital participation with commercial banks and promotion of special schemes for technicians starting own projects for meeting basic needs of industrialisation in Gujarat.

Chairman : C. C. Shah ; *Mg. Director :* S. J. Coelho, I.A.S.

Gujarat Mineral Development Corpn. Ltd., 5th Floor, Natraj Theatre Bldg., Ashram Rd., Navrangpura, Ahmedabad 380009.

Aims and Objects : To undertake mining and development of minerals in Gujarat.

Chairman : M. Sivagnanam.

Gujarat Small Industries Corpn. Ltd., Bhagwati Chambers, Opp. Gujarat Vidyapith, Ashram Rd., Ahmedabad 380013.

Functions : To assist the small-scale industries in the procurement and distribution of scarce and controlled raw materials ; to supply machinery on hire purchase basis ; to assist in marketing their products, to procure quality machine tools and to encourage development of ancillary industries by setting up promotional projects.

Gujarat State Financial Corpn., Jaldarshan Bldg., Ashram Rd., P.B. 262, Ahmedabad.

Object : Financial assistance to small, medium and large scale industries and underwriting of shares of industrial units in Gujarat, guaranteeing deferred payment on machineries acquired in India and subscribing the debentures of industrial concerns.

Chairman : L. R. Dalal, I.C.S. ; *Mg. Director :* H. R. Patankar, I.A.S.

Gujarat State Textile Corpn. Ltd., Handloom House, 1st fl., Ashram Rd., Ahmedabad 380009.

This corporation is being appointed as authorised controller by the Central Government under Industries (Development & Regulation) Act, 1951, in the interest of providing employment to the workers who are rendered jobless due to the closure of the mills. At present the corporation runs eight mills.

Chairman : Vijaykumar Trivedi ; *Mg. Director :* J. G. Shah.

Haryana Agro-Industries Corpn. Ltd., Kothi, No. 8, Sector 9-A, Chandigarh.

Haryana Agro-Industries Corporation is a joint venture of the Government of India and the State Government with 50:50 share capital participation.

Objects : 1. To undertake, assist, aid, finance & promote Agro-Industries such as poultry, dairying, manufacture of agricultural implements & machinery; 2. To organise setting up of workshops ; 3. To assist the unemployed technically qualified personnel for setting up of agro service centres ; 4. To promote or conduct any agricultural, commercial enterprises.

Haryana Dairy Development Corpn. Ltd., S.C.O. No. 6 & 7, Sector 17-B, Chandigarh.

Objects : To produce, buy and sell milk and milk products ; to set up and operate milk procurement centres, complete dairy plant, laboratory, etc. for processing, manufacturing and marketing of milk and milk products ; to promote, finance and subsidize suitable programmes and services for producing more and better milk with modern techniques.

Chairman : N. N. Kashyap ; *Mg. Director :* L. Isa Dass.

Haryana Financial Corpn., Sector 17A, 17, 18, C19, Chardigarh.

This corporation has been set up to cater to the financial requirements of small- and medium-scale industries and road transport operators in the State of Haryana.

Chairman : M. L. Batra, I.A.S. ; *Mg. Director :* R. L. Sudhir, I.A.S.

Haryana State Industrial Development Corpn. Ltd., P.B. 22, Bank Square, Sector 17A, Chandigarh.

Objectives : To sponsor medium and large-scale industries in the public and private sectors ; to render financial assistance by way of underwriting issue of shares and direct capital participation ; development of industrial areas and estates by giving assistance to technical entrepreneurs and industrialists ; to get profitability and feasibility reports prepared for new entrepreneurs ; any other activities that may lead to fostering of scientific, planned industrial development of Haryana State.

Chairman : M. L. Batra, I.A.S. ; *Mg. Director :* J. D. Sharma, I.A.S.

Haryana State Small Industries & Export Corpn. Ltd., 2nd Floor, Bank of India Building, Sector 17-B, Chandigarh.

Objects : To export quality goods at competitive prices such as motor cycles, bicycles, railway shock absorbers, machine tools, printing machines, pulling and lifting machines, weights and measures, industrial fasteners, refrigerators and coolers, laboratory instruments, electronic instruments etc. etc.

Himachal Pradesh State Small Industries & Export Corpn. Ltd., Kishore Bhawan, The Mall, Simla.

Main objects : Procurement and distribution of various categories of raw materials to small-scale industrial units ; manufacture of textiles, footwears, tannery products, handicrafts, hosiery, etc. on commercial lines ; provides know-how and information on all aspects of export trade.

Chairman : P. K. Mattoo, I.A.S. ; *Mg. Director :* Kanwar Shamsher Singh I.A.S.

Jammu & Kashmir State Financial Corpn., P.W.D. Bldgs., Residency Rd., Srinagar.

Aims and objects : To stimulate the establishment of small- and medium-scale industries and expansion and modernisation of existing industries by providing financial assistance on medium- and long-term basis. Loans are also granted to hotel, houseboat and transport industries.

Handicrafts Development Corpn. of Kerala Ltd., Putenchanthai, Trivandrum 695001.

Main Objects : (1) To develop and promote handicrafts ; (2) To provide financial, technical marketing or any other assistance ; (3) To promote, establish and operate sales offices, such as emporia, show room, publicity offices, stalls and centres with the object of improving the marketability of Kerala handicrafts anywhere within and outside India.

Kerala Agro-Industries Corpn. Ltd., Regd. Office : Kissan Jyothi, Fort, Trivandrum 695001.

A joint enterprise of the State and Central Governments. It has been conceived as an instrument for better exploitation of our lands. The development of agriculture, dairy, poultry and fisheries by helping their mechanisation and otherwise modernising them, the processing of primary produces, their storage, preservation etc., are among the main objects of the corporation.

Kerala Financial Corpn., K.F.C. Bldgs., Vellayambalam, Trivandrum 695001.

The Corporation was started with the object of providing financial assistance to industrial concerns in order to quicken long term-credit to industrial concerns in Kerala State in need of financial assistance and the pace of industrialisation of the State.

Chairman : B. V. Abdulla Koya ; *Mg. Director :* A. Prabhakaran.

Kerala Fisheries Corpn. Ltd., XVI/848 B, Dharmodayam Bldgs., Shanmugham Rd., Ernakulam, Cochin 682011.

Objects : To assist fishermen producing better quality products for foreign markets ; to obtain foreign assistance and collaboration wherever necessary ; to ensure that the foreign exchange earnings are ploughed back into the industry and used for welfare of fishermen. At present it has 5 ice & freezing Plants 7 ice and cold storage plants, 5 boat building yards, 2 fish meal plants and 1 nylon net factory at various points. Its activities include boat-building, fishing operations, canning, freezing and export of shrimps, frog legs, lobsters, manufacture of fish meal and fish oil and fabrication of nylon fishing nets and twines.

Chairman : K. R. Vijayan ; *Mg. Director :* M. Mukundan Unni.

Kerala Handloom Finance Corpn. Ltd., P.M. 128, Thilleri Rd., Cannanore 670001.

Kerala State Cashew Development Corpn. Ltd., P. B. No. 13, Quilon.

Activities : Importing and collecting from indigenous sources and processing cashew nuts for export. To help in the development of plantations and the manufacture of cashew by-products.

Kerala State Coir Corpn. Ltd., P. B. No. 191, Alleppey.

The Corporation is constituted with a view to revitalise and develop the coir industry.

Objects : To aid, advise, assist, finance and protect the interest of coir industry in Kerala and also to aid coir industrial units by supplying credit and giving financial assistance.

Kerala State Industrial Development Corpn. Ltd., Vellayambalam, Trivandrum 695001.

Joint Stock Companies registered in India and Co-operative Societies which are engaged or have for their objects the establishment and operation of industries and have a share capital of not less than Rs. 0·5 million are eligible to receive assistance from the Corporation.

The assistance will be given to large-scale and medium sized industries. It will normally entertain applications for loans from industrial concerns only if the amount involved exceeds Rs. 1 million in the case of Private Limited Companies and Rs. 2 million in the case of Public Limited Companies.

Chairman : K. T. Chandy.

Kerala State Small Industries Corpn. Ltd., P. B. 50, Trivandrum 695001.

Main activities : Distribution of scarce raw materials both imported and indegenous to small scale industrial units of Kerala ; supply of machinery on hire purchase basis ; manufacture of survey and levelling instruments, ready-made garments, ceramic wares, strawboards, roofing and flooring tiles etc., civil construction works ; and administration of industrial estates.

Mg. Director : K. O. Isaac.

Kerala State Textile Corpn. Ltd., 'Aswathi', 30/1271, Alappat Cross Rd., Ravipura, Ernakulam, Cochin 682011.

The corpn. manages the sick textile mills in Kerala taken over by the Govt. of India. At present it is the custodian of Alagappa Textiles (Cochin) Ltd., Alagappanagar, Parvathi Mills Ltd., Quilon, Kerala Lakshmi Mills Ltd., Trichur and Vijayamohini Mills Ltd., Trivandrum.

Chairman : K. T. Chandy.

Kerala Urban Development Finance Corpn. Ltd., Tej Bhawan, New Rd., Calicut 673005.

The corporation provides financial assistance to urban local bodies in the State and also gives technical and other assistance for their developmental schemes.

Mg. Director : K. P. M. Rowther.

Plantation Corpn. of Kerala Ltd., P. B. 12, Kottayam 686006, Kerala State.

Area under rubber : 6,773 hectares. Area under yielding: 2,482 hectares. The corporation manufactures all grades of sheet, crepe and concentrated latex.

Madhya Pradesh Audyogik Vikas Nigam Ltd., 36, Bhadbhada Rd., New Market, T. T. Nagar, Bhopal.

The M. P. Audyogik Vikas Nigam aims to promote the establishment of industries in Madhya Pradesh by providing them with financial, technical and other assistance.

Mg. Director : Samar Sarkar.

Madhya Pradesh Financial Corpn., Shiv Vilas Palace, Indore City.

Renders financial assistance, both medium-term and long-term, to industrial units in private and co-operative sectors. The term of loan from the Corporation may be upto 20 years, but it is decided in each case keeping in view the requirement of the unit.

Maximum amount which can be sanctioned as assistance to one unit is Rs. 2 million in the case of public limited companies and Rs. 1 million in the case of others. The current rate of interest is 9½ per cent and a rebate of ½ per cent is allowed for punctual payment of interest and principal. Concessional rate of interest offered for loans to S.S.I. units covered under guarantee scheme and refinance.

Chairman : K. L. Pasricha.

Madhya Pradesh State Agro-Industries Development Corpn. Ltd., New Market, Tatyatope Nagar, Bhopal.

Activities : It helps promote industries for processing, preservation and distribution of agricultural products ; distributes and hires farm machinery and equipments.

Chairman : N. S. Deo ; *Mg. Director :* P. N. Baijal.

Madhya Pradesh State Industries Corpn. Ltd., Maheshwari Bhavan, Civil Lines, Bhopal 462002.

Object : To run the State's medium industries and to start new medium industries under State sector.

M. P. State Mining Corpn. Ltd., 80, Malviya Nagar, Bhopal, Napier Town, Jabalpur 482001.

Main objects : To search for major and minor minerals and to mine and work them and to trade in minerals. The corporation has included in its programme prospecting and mining of limestone and dolomite, bauxite, glass sand, ochres, fireclays, coal and building sand and stone.

Madhya Pradesh State Textile Corpn. Ltd., 35, Civil Lines, Bhopal 462001.

The corpn. manages the textile mills in the State taken over under the Industries (Development & Regulation)

Act, 1951. It is also undertaking modernisation programme, export of cloth etc. on behalf of its constituent units.

Mg. Director : B. V. Vora.

Maharashtra Agricultural Development & Fertiliser Promotion Corpn. Ltd., (MAFCO) Mistry Bhavan, D. Vachha Rd., Bombay 400020.

Objects : To assist the agricultural producer in getting a remunerative price by promoting the development of agricultural production, and marketing, processing and cold storage of agricultural products including pig and poultry products of Govt. Bacon Factory and Govt. Poultry Dressing Plant.

Mg. Director : Ranjit Singh Pal.

Maharashtra Agro-Industries Development Corpn. Ltd., *Registered Office :* Rajan House, 3rd Fl., Near Century Bazar, Bombay 400025.

Objects : To promote improved agricultural practices by manufacture, fabrication and distribution of agricultural implements, fertilizers, animal and poultry feed compounds, agricultural iron and steel, and setting up cold storage and fruit preservation facilities.

City & Industrial Development Corpn. of Maharashtra Ltd. (CIDCO), 2nd Fl., Nirmal, Nariman Point, Bombay 400001.

A Govt. of Maharashtra undertaking, was established in March 1970 with the object of developing a new city across the harbour from Bombay. The new city, to be called New Bombay, will extend over an area of about 130 sq. miles in the Panvel-Thana-Uran triangle of Thana and Kolaba Districts.

Chairman : N. M. Wagle ; *Mg. Director* · J. B. D'Souza.

Development Corpn. of Konkan Ltd., Warden House, Sir P. Mehta Rd., Bombay 400001.

The corporation has been established by the Govt. of Maharashtra to promote industrial growth in the districts of Thana, Kolaba and Ratnagiri.

Chairman : G. M. Laud ; *Mg. Director :* S. R. Kakodkar.

Development Corpn. of Vidarbha Ltd., Mahajan Bldg., Main Rd., Sitabuldi, Nagpur 440012.

Objects : To achieve orderly establishment of industries and industrialisation of the 8 districts of Vidarbha. To this end the Corpn. is setting up units on its own or as joint sector ventures, and is also preparing viable schemes to help would-be entrepreneurs.

Mg. Director : P. S. Palande, I.A.S.

Maharashtra Industrial Development Corpn., Marol Ind. Area, Mahakali Caves Rd., Andheri (East), Mulgaon, Andheri, Bombay 400073.

The functions of the Corporation are :—

To promote and assist in the rapid and orderly establishment, growth and development of industries ; to establish and manage industrial estates ; to develop industrial areas selected by the State Government ; to assist financially, industries by loans to move their factories to industrial estates or areas ; and to provide built-up sheds to technicians.

The corporation has set up a separate division called the **Maharashtra Investment Centre,** which has its office on the 5th floor, Orient House, Mangalore St., Ballard Estate, Bombay 400001. The Centre gives imformation to prospective entrepreneurs about the facilities offered by the corporation and other organisations dealing with the promotional aspect of the industrial development in the State.

Maharashtra Small-Scale Industries Development Corpn. Ltd., 45, V. Nariman Rd., Fort, Bombay 400001.

Objects : To aid, assist, finance and promote small industries and to procure capital or financial assistance or accommodation for, or provide machinery, equipment, technical and managerial assistance to small industries.

Activities : Supply of machinery on hire-purchase basis, procurement and distribution of scarce raw materials, marketing of small industries products, sole selling agency, capital participation, bank credit assistance, import, export, forum of industrial technologists, publications, a sales emporium in New Delhi, etc.

Chairman : G. B. Newalkar ; *Managing Director :* S. Rajgopal, I.A.S.

Maharashtra State Farming Corpn. Ltd., 6th Fl., Khetan Bhavan, 198, J. Tata Rd., Bombay 400020.

Object : Cultivation and management of the surplus lands of the Joint Stock Sugar Companies in Maharashtra vesting in the Government under the provisions of the Maharashtra Agricultural Lands (Ceiling on Holdings) Act, 1961.

Chairman : H. G. Vartak ; *Managing Director :* K. K. Moghe, I.A.S.

Maharashtra State Financial Corpn., Dharmadaya Ayukta Bhavan, 83, Dr. A. Besant Rd., Worli, Bombay 400018.

Branch Offices : National Indian Building, Mount Road Extension, Nagpur ; Rajyog Sadan, Near Holiday Camp, Station Road, Aurangabad ; Jay Dhaval Building, Laxmipuri, 1519, C Ward, Kolhapur ; S.P. College Compound, above Post Office, Tilak Road, Poona 411030 ; United India Bldg., Sir P. Mehta Road., Fort, Bombay 400001.

The corporation provides financial assistance to medium and small-scale industrial concerns in Maharashtra State and in the Union Territory of Goa, Daman and Diu for purchase of land, plant and machinery, construction of factory buildings and for expansion of existing units. In 1970–71, it has designed schemes to provide financial assistance to qualified technicians and industrially backward areas at concessional rate of interest.

Maharashtra State Powerlooms Corpn. Ltd., Lotus House, 33A, New Marine Lines, Bombay 400020.

Objects : To rehabilitate the powerloom industry and to assist the weavers, who are economically weak, the corpn. undertakes various operations in production, marketing and sale of cloth.

Chairman : A. R. Bhide ; *Mg. Director :* M. R. Anandrao.

Maharashtra State Textile Corpn. Ltd., 'Vashani Chambers', 47, New Marine Lines, Bombay 400020.

The textile corporation was set up to take over textile mills in the State which had to close down owing to the crisis in the industry.

The corporation envisages the salvation of such mills and running them as unemployment relief measures and for setting up new spinning and composite units in the public sector. At present there are 24 textile mills under the management of the corpn., which produce cloth and yarn worth Rs. 600 million annually and provide employment to 60,000 workers.

Chairman : D. J. Madan ; *Mg. Director :* P. Abraham.

Maharashtra State Warehousing Corpn., 18, Bombay Rd., Poona 411003.

The corporation has established warehouses at 72 centres spread all over Maharashtra State. Against warehouse receipts issued by the corporation, the depositors can secure advances by pledging the same with Scheduled

Banks, State Bank of India and Dist. Central Cooperative Banks.

Mg. Director : R. G. Gupte, I.A.S.

Marathwada Development Corpn. Ltd., Anvikar Bldg., Adalat Rd., Aurangabad 431001.

Objects : To promote, encourage, establish and assist industries; to start agro-based industries and to prepare, undertake and promote industrial projects solely or jointly with the Government or any company, corporation etc. for industrial development of Marathwada region.

Mineral Exploration Corpn. Ltd., Seminary Hills, Nagpur 440001.

State Industrial and Investment Corpn. of Maharashtra Ltd., 'Nirmal', 1st Fl., Nariman Point, Bombay 400001.

Objects : To promote development of industries in the under-developed areas of Maharashtra State by assisting industries in the private sector by underwriting support/equity participation in the capital issues, by grant of long-term loans and in the joint sector by promoting new industrial projects.

Textile Corpn. of Marathwada Ltd., Anvikar Bldg., Adalat Rd., Aurangabad 431001.

An associate company of the Marathwada Development Corpn. Ltd. set up in Nanded for the industrialisation of Marathwada and for rehabilitation of handloom workers.

Chairman : Arvind N. Mafatlal. *Mg. Driector :* V. Narayan, I.A.S.

Manipur Small Industries Corpn. Ltd., Paona Bazar, Imphal 795001 Manipur.

Objects : To advise, assist, finance, protect and promote the interests of small industries in the State.

Mg. Director : Y. Bir Chandra Singh.

Mysore Small Industries Corpn. Ltd., Administrative Office Bldg., Ind. Estate, Rajaji Nagar, Bangalore 560044.

Objects : To assist, finance and generally to promote the interests of the small-scale industrialists in the State.

Activities : Construction, maintenance and management of industrial estates; procurement and sale of scarce raw materials; supply of machinery on hire-purchase; rendering of marketing assistance; organising exhibition and display of products of small-scale industries; dissemination of information.

Mysore State Agro-Industries Corpn. Ltd., No. 10, Ali Asker Rd., Bangalore 560001.

Supply of all agricultural machineries like tractors, power-tillers, pumpsets, bulldozers, etc. on cash basis; distribution of fertilisers, seeds, pesticides and scarce category of iron and steel for the manufacture of agricultural equipments.

Mg. Director : B. P. Balakrishna.

Mysore State Financial Corpn., 1/1, 11 Main Rd., Malleswaram, Bangalore 560003.

Offers financial assistance to establish, modernise, renovate and expand new industries and to qualified technical entrepreneurs to start small-scale industrial enterprises.

Mysore State Fisheries Development Corpn. Ltd., Hoije Bazar, Mangalore 575001.

Estd. in Jan. 1971. The corpn. at present operates 14 ice-cum-cold storages cum freezing plants, 2 boat-building yards, which turn out various types of mechanised boats, 4 refrigerated vans, 4 insulated vans, 2 deep sea trawlers, and has also undertaken to export 80 tonnes of frozen seafoods and marketing of 150 tonnes of fresh and frozen fish in the inland markets. It has also embarked upon freezing of mackerels, sardines etc., and preparation of filleted fish of various varieties, setting up of canning plant, fish meat plant etc.

Chairman : L. Ananda ; *Mg. Director :* M. Jayaraj.

Mysore State Handicrafts Development Corpn. Ltd., 26/45, M. Gandhi Rd., Bangalore 560001.

The corporation has been running Handicrafts Emporia under the name "KAVERI" at Bangalore, Mysore, Mangalore, Belgaum, Hubli and Gulbarga in Mysore State and Delhi and Bombay.

The corporation has also started production centres for high quality sandalwood carving, bronze castings, wood carving, lacquerware and potteryware. Financial assistance and design assistance are provided to artisans. The corporation has also undertaken export of handicrafts.

Mg. Director : Shafiqur Rahman.

Mysore State Industrial Investment and Development Corpn. Ltd., "Hari Nivas", 36, Cunningham Rd., Bangalore 560052.

Aims and Objects of the Corporation : The main objectives of this corporation, among others, are to promote, improve, establish and execute industries and industrial projects; to aid, make advances, assist and finance industrial undertakings and underwrite the stock, shares etc.

Chairman : T. Shamanna.

Industrial Development Corpn. of Orissa Ltd., P. B. 78, Bhubaneswar 751001.

The corporation has eight running industries (1) Kalinga Iron Works, Barbil, manufacturers of superior foundry grade pig iron; (2) Hira Cement Works, Bardol, Shambalpur; (3) The Ferro-chrome Project, Jaipur Road, manufacturers of low carbon ferrochromium and high carbon silicon-chromium; (4) Hiracable Works, Hirakud, manufacturers of ACSR & AAC Cables, enamelled copper and paper covered wires and strips; (5) Re-rolling Mill, Hirakud manufacturers of bars, rods, angles, tor-steel and light structurals; (6) Hirakud Industrial Works, Hirakud, manufacturers of light engineering goods, trailers, water pump, transmission towers, open pan sugar machinery; (7) Tile Factory, Choudwar, manufacturers of roofing and flooring tiles and (8) East Coast Salt & Chemical Industries, Sumandi, Ganjam, manufacturers of edible and industrial Grade salt.

Mg. Directors : Dr. H. P. Misra and S. N. Das Mahapatra.

Orissa Construction Corpn. Ltd., P. B. 82, Bhubaneswar.

The corporation has completed a number of high level bridges, dams, syphons, aqueducts, aerodrome, ferro-chrome plant, transmission tower foundation etc. Major works now in hand, include an irrigation dam, hydel power house, harbour slipway, bridges, fertiliser factory civil works, water treatment plant and irrigation barrage.

Chairman : J. Das, I.A.S.

Orissa Forest Corpn. Ltd., Cuttack 753009.

The corporation undertakes proper exploitation of forest resources of the State and markets raw and finished forest products such as timber, props, colliery materials, sleepers, charcoal, Kendu leaves, etc. etc. inside and outside the State.

Mg. Director : S. K. Mohanty.

Orissa Mining Corpn. Ltd., Bhubaneswar 751001.

Objects : Exploitation of various minerals in the State through iron ore, manganese and chromite mines set up

by the corpn.; assembling and transporting the minerals for export purpose and to meet indigenous requirements.
Chairman : A. L. Nair.

Orissa State Financial Corpn., Barabati Stadium, Cuttack 753005.
Object : To provide medium and long-term credit to small-scale and medium-sized industrial concerns and also hotel and transport industry, in the State of Orissa, primarily for the purpose of purchase, renovation or expansion of plant and machinery and other fixed assets.

Punjab Agro-Industries Corpn. Ltd., 167, Sector 19-A, Chandigarh 160017.
It is a joint venture of the Punjab Government and the Govt. of India. Established in 1966, aims at promoting farm mechanisation by distributing imported tractors, supply of agricultural implements and servicing by means of mobile service vans, distribution of steel and establishment of agro-service centres of unemployed engineers, grain storage bins etc. etc.
Chairman : Mrs. Serla Grewal, I.A.S.; *Mg. Director :* A. S. Pooni, I.A.S.

Punjab Dairy Development Corpn. Ltd., 14-A, Madhya Marg, Sector 7-C, Chandigarh 160017.
Objects : To provide remunerative price to the milk producers and also to make available fresh, pure and wholesome milk and milk products to the consumers at reasonable prices.
Chairman : Mrs. Sarla Grewal, I.A.S.; *Mg. Director :* Gurbhagwant Singh.

Punjab Export Corpn. Ltd., Batra Bldg., Sector 17, P.B. 20, Chandigarh 160017 Punjab.
Object : To serve as a channel for the outflow of goods from Punjab's medium and small-scale industries to the export markets. It arranges supply of scarce raw materials required for the manufacture of goods.

Punjab Financial Corpn., 72/73, Sector 17-B, Bank Square, Chandigarh 160017.
Is intended primarily to supply the financial requirements (loans, underwriting capital and deferred payment guarantee) of medium and small-scale industries in the State of Punjab only.

Punjab Poultry Corpn. Ltd., 106, Sector 16-A, Chandigarh 160017.
Manufacture of poultry feeds at its Feed Processing Centres in Chandigarh, Patiala, Ludhiana, Jullundur and Gurdaspur; sale of different varieties of poultry & pig feeds as well as cattle feeds through a network of agencies.
Mg. Director : Amarjit Singh.

Punjab State Industrial Development Corpn. Ltd., SCO 54, 55 & 56, Sector 17-A, Chandigarh 160017.
The corporation is mainly engaged in promoting new large and medium-scale industries in the State.
Mg. Director : A. S. Chatha, I.A.S.

Punjab State Small Industries Corpn. Ltd., Batra Bldg., Sector 17, P.B. 11, Chandigarh 160017.
Its objects are to aid, counsel, assist, finance, protect and promote the interests of small industries in the State. Primary functions: (*i*) Procurement, storage and distribution of all types of raw materials, both controlled and decontrolled. (*ii*) Supply of machinery on hire purchase basis to small industries; (*iii*) Import of industrial raw materials; (*iv*) Registration of small-scale units by which they become entitled to 15 per cent price preference in purchases made for Government Departments; (*v*) Export of the products of the small scale industries; and (*vi*) Marketing of the products in and outside the State through its emporia set up at Ludhiana, Patiala, Chandigarh, New Delhi, Jullundur and Amritsar.

Rajasthan Financial Corpn., Surya Nivas, C-18, Bhagwandas Rd., P. B. 63, Jaipur 302001.
Object : To provide financial assistance to medium and small-scale industrial concerns in the State.
Mg. Director : J. S. Singhvi, I.A.S.

Rajasthan State Hotels Corpn. Ltd., State Hotel Premises, M. I. Rd., Jaipur 302001.
Objects : To meet the growing needs of internal and external tourist traffic and provide facilities at reasonable rates.

Rajasthan Small Industries Corpn. Ltd., 12, Sahdev Marg, 'C' Scheme P.B. 180, Jaipur 302006.
It renders assistance by procuring and distributing raw materials to the small scale industrial units; runs handicrafts emporia at Jaipur, New Delhi, Mount Abu and Bombay; organises exhibitions and fairs abroad for export promotion of handicrafts; runs worsted spinning mills at Churu and Ladnu, a furniture making unit and a design development centre for handicrafts at Jaipur and a bidi factory at Tonk; a carpet factory is being set up at Jaipur.
Mg. Director : M. L. Goyal.

Rajasthan State Agro Industries Corpn. Ltd., Virat Bhawan, Prithvi Raj Rd., 'C' Scheme, Jaipur 302001.
The corporation provides imported tractors and other farm equipments to farmers. The corpn. is also providing jobs to the unemployed engineers at its workshops. It also undertakes land levelling work in major irrigation projects with its fleet of over 80 crawler tractors.
Chairman : Aminuddin Ahmed Loharu; *Mg. Director :* Anandi Lal Rungta.

Rajasthan State Industrial & Mineral Development Corpn. Ltd., 100, Jawaharlal Nehru Marg, Jaipur 302004.
Estd. April 1969 to accelerate the industrial and mineral development of Rajasthan. It promotes, establishes, aids and executes industries; undertakes industrial ventures independently or jointly.
Chairman : P. N. Kathju; *Mg. Director :* Ramakant.

Southern Petrochemical Industries Corpn. Ltd., *Regd. Office :* 99, Armenian Street, Madras 600001. *Principal Office :* 24, Whites Rd., Madras 600014.
The Corporation with an authorised capital of Rs. 350 million was incorporated on 18th December 1969 to implement the "Tuticorin Fertilizer Project", the largest complex of its kind in Asia, with the Government of Tamil Nadu as co-sponsors in the venture.
Chairman : M. A. Chidambaram; *Vice-Chairman & President :* K. R. Srivatsa.

Banana & Fruit Development Corpn. Ltd., 3, Wheat Croft Rd., Madras 600034.
The corporation has been set up by the States of Tamil Nadu, Andhra Pradesh, Kerala & Mysore to promote cultivation and marketing including export of exportable varieties of bananas. The Corpn. has also pioneered the export of Mandarin oranges from Coorg to Singapore.
Managing Director : K. S. Chandrasekaran, I.A.S.

State Industries Promotion Corpn. of Tamil Nadu Ltd., Meco House, 11 A/1, Anna Salai, Madras 600002.
Functions : To promote medium and major industries by providing liberal financial assistance and implementing a package scheme of incentives including subsidy for

feasibility studies, interest free loans equivalent to the sales tax paid, subsidy for industries to be set up in backward taluks of the State etc.

Chairman : M. G. Raja Ram, I.A.S. ; *Mg. Director :* J. R. Ramanathan, I.A.S.

Tamil Nadu Agro Industries Corpn. Ltd. (A Government of Tamil Nadu Undertaking), Ind. Estate, Guindy, Madras 600032.

Objects : To establish, promote and assist industries for manufacture of articles which help modernisation of agriculture, animal husbandry, pisciculture and poultry development.

The corporation imports and supplies tractors as well as spare parts, tyres and tubes and agricultural discs in addition to hiring of tractors and supply of pesticides.

Chairman : K. V. Subbiah ; *Mg. Director :* V. Ramamurthy, I.A.S.

Tamil Nadu Dairy Development Corpn. Ltd., 6, Ritherdon Rd., Madras 600007.

The Corpn. is in charge of milk distribution in Madras city and also for implementation of 'operation flood scheme' under which Tamil Nadu has been allotted Rs. 88 million by the Indian Dairy Corpn.

Mg. Director : L. M. Menezes.

Tamil Nadu Industrial Development Corpn. Ltd., 150-A, Mount Rd., Madras 600002.

Functions : To establish major industries in the public and joint sectors in Tamil Nadu.

Chairman : Harbans Singh, I.A.S. ; *Mg. Director :* T. S. Vijayaraghavan, I.A.S.

Tamil Nadu Industrial Investment Corpn. Ltd., Arun Manail, 26, Whites Rd., Madras 600014.

Mg. Director : M. R. B. Punja.

Tamil Nadu Small Industries Corpn. Ltd., 35/2, Woods Rd., Madras 600002.

Incorporated with the object of taking over industrial units earlier run departmentally and to undertake production and servicing jobs in these units.

Chairman : V. Karthikeyan, I.A.S. ; *Mg. Director :* A. M. Swaminathan, I.A.S.

Tamil Nadu Small Industries Development Corpn. Ltd., 'Kannammai Bldg.,' 122, Mount Rd., Madras 600006.

Objects : Assisting the growth of Small Industries in Tamil Nadu by (*i*) Procurement and distribution of raw materials (both indigenous and imported); (*ii*) Supply of machinery on hire-purchase ; (*iii*) Construction and offer of industrial sheds on hire-purchase ; (*iv*) Extension of loans and participation in equity capital ; (*v*) Offer of technical consultancy services and (*vi*) Offer of marketing and export assistance.

Chairman : R. Nagarajan, I.A.S.

Tamil Nadu Textile Corpn. Ltd., 46, Thyagaraja Rd., Madras 600017.

Objects : Managing and controlling any textile mill in Tamil Nadu which may be taken over by the Government and assisting Textile Industry in general.

Chairman and Mg. Director : P. Murari, I.A.S.

Tamil Nadu Tourism Development Corpn. Ltd., 34, Anna Salai, Madras 600002.

The corporation runs tourist bungalows at Ooty, Coonoor, Yercaud, Kodaikanal, Madurai, Trichy, Kanyakumari & Tiruchendur. It also proposes to build tourist bungalows in all the Dist. headquarters and also at Mahabalipuram, Courtallam, Hogenakkal Chidambaram, Tuticorin and Nagapattinam.

Tamil Nadu Warehousing Corpn., 9/10, Moore St., Madras 600001.

The main functions are : to acquire, build and run warehouses in the State for storage of agricultural produce, seeds, manures, fertilisers and notified commodities and to act as an agent for the purchase, sale, storage and distribution of agricultural produce, seeds, manures, fertilizers, agricultural implements and notified commodities on behalf of a company, as defined in the Companies Act, 1956 (1 of 1956) or a body corporate established by an Act of Parliament or of a State legislature or a co-op. society and also undertake such other functions as are conducive to the promotion of warehousing habits among the agriculturists.

Mg. Director : G. M. White, I.A.S.

Tripura Small Industries Corpn. Ltd., P.O. Agartala 799001.

Objects : To aid, advise, assist, finance, protect and promote the interests of small industries in Tripura.

Presently the corporation is procuring industrial raw materials for distribution among the small industrial units in Tripura and is also running a fruit canning Factory for the manufacture of pineapple slices, juice, jam, etc. out of famous queen pineapples of Tripura.

Mg. Director : C. R. Bhattacharjee.

Pradeshiya Industrial & Investment Corpn. of U.P., Vidhan Bhavan, Lucknow 226001.

The corpn. will undertake feasibility studies and preparation of project reports, and will grant financial assistance for setting up new industries in U.P., apart from rendering technical and other assistance to industries.

U. P. Financial Corpn., 14/88, Civil Lines, Kanpur 208001.

The object is to provide finance to industrial concerns, co-operative societies, public or private limited companies engaged in or proposed to be engaged in any of the following activities :—manufacture of goods ; preservation of goods ; mining; hotel industry; transport by road and water, etc.

Chairman : Rajeshwar Prasad, I.A.S. ; *Mg. Director :* S. Ramesh, I.A.S.

U. P. Small Industries Corpn. Ltd., B-15, Sarvodaya Nagar, Kanpur 208005.

Main objects : The main objects of the corporation are to aid, counsel, assist, finance, protect and promote the interests of small industries in the State, whether owned or run by Government, statutory-body, company, firm or individuals and to provide them with capital, credit, means, resources and technical and managerial assistance.

Mg. Director : T. S. R. Subramanian, I.A.S.

U. P. State Agro Industrial Corpn. Ltd., 22, Vidhan Sabha Marg, Lucknow 226001.

Activities : Assembles tractors, manufactures various types of agricultural implements & quality cattle and poultry feeds and distributes it to cultivators ; agro service centres set up by the corpn. are providing custom and hiring facilities to cultivators all over the State ; its processed foods division is running 6 factories in U.P. The corpn. is exporting mango juice and other items to U.S.S.R. and other countries of Middle East and W. Europe.

Chairman : J. D. Shukla, I.C.S.

U. P. State Industrial Development Corpn. Ltd., Bldg. of the Directorate of Industries, 117/420, G. T. Rd., P.B. 413, Kanpur 208001.

Activities : (1) Acquisition and development of land in Ghaziabad, Hardwar, Bareilly, Kanpur, Agra, Lucknow, Rai-Bareilly, Sandila (Hardoi), Gorakhpur, Naini (Allahabad) and Varanasi for offering to industrialists on 90 years lease on easy instalments ; (2) Underwriting of share capital of public limited companies ; (3) Working of certain selected mineral deposits within the State of U.P· for supply to steel plants and other industrial concerns; (4) Establishment of a dead burnt magnesite Project in Almora Dist., G.L.S. lamp project at Bulandshahr , printing machinery project at Unnao and steel billets project at Ballia.

West Bengal Agro-Industries Corpn. Ltd., 23B, N. Subash Rd., Calcutta 700001.

Functions : Distribution and hiring of agricultural machinery ; runs agro-service centres ; distribution of fertilisers, seeds, pesticides, etc. ; setting-up of various agro-based industries.

Mg. Director : Dr. K. Sengupta.

West Bengal Dairy & Poultry Development Corpn. Ltd., 16, Netaji Subash Rd., Calcutta 700001.

Aims : Development of dairy and poultry farms and distribution of milk, feeds, poultry eggs and meat for the benefit of consumers.

Mg. Director : N. N. Akhradhary.

West Bengal Industrial Development Corpn. Ltd. (A Govt. of West Bengal Undertaking), 23A, N. Subash Rd., Calcutta 700001.

The corporation is actively engaged in assisting in the balanced growth and development of industries in the State as a fiscal agent of the Govt. by providing incentives to medium and large scale industries besides offering financial assistance in the form of loan and equity participation.

West Bengal Financial Corpn. 4, Kiron Sankar Roy Rd., (1st Fl.), Calcutta 700001.

Objects : To assist medium and small-scale industrial units including hotels and transport in the State by way of term loans, underwriting of shares, bonds and debentures and guarantee of deferred payments regarding purchase of capital goods.

West Bengal Small Industries Corpn. Ltd. (A Govt. of West Bengal Undertaking), 45, G. Chandra Ave., (2nd Fl.), Calcutta 700013.

This corporation looks after the various problems facing the cottage and small-scale industries of the State.

Activities : Procurement and distribution of raw materials and marketing the finished products mostly consumer goods of the cottage and small-scale industrial units of the State through the corporation's sales emporia within and outside the State of West Bengal and financing the supply of raw materials and their import.

Managing Director : K. Lahiri.

West Bengal State Warehousing Corpn., 45, G. Chandra Ave., Calcutta 700016.

FOREIGN AID TO INDIA

BALANCE OF PAYMENTS & FOREIGN AID

Data on various constituents of the balance of payments are not available beyond September 1971. The latest compilations relate therefore, to nine month period January to September 1971. During this period, the external payment position deteriorated markedly compared to the same period in 1970. Foreign exchange reserve went up by Rs. 500 million against the rise of Rs. 1,160 million in the corresponding period in 1970. Repurchases from the Fund at Rs. 490 million and SDR allocation of Rs. 760 million in 1971 were against Rs. 950 million each in 1971. But the reserves benefited to the tune of Rs. 130 million from valuation changes in major world currencies. If all these transactions of special nature are excluded, the rise in reserves would amount to Rs. 110 million in January-September 1971 and that in corresponding period of 1970 to Rs. 1,240 million. This was caused by the widening of trade deficit because of a sharp step up of imports of steel and raw cotton, larger imports of non-ferrous metals and rise in payment of import of crude. Considering the current account deficit of Rs. 4,345 million, the increase of Rs. 4,885 million in net capital account, and net decrease of Rs. 163 million for errors and omissions, the balance of payments was on the plus side by Rs. 377 million.

Trends in Reserves during 1971-72 (July-June) : Foreign Exchange reserves which registered a decline of $66 million during 1970-71 (July to June) increased by Rs. 590 million to Rs. 8,460 million during 1971-72 (July-June). A part of this improvement, however, reflected the appreciation in the value of some of the reserve assets resulting from changes in exchange rates. Exchanging this, the improvement in reserves would work out to be Rs. 430 million in 1970-71, the reserves declined by Rs. 500 million to Rs. 7,870 million at the end of June 1971 ; however, repurchases from the IMF and the purchase of gold for the payment of additional gold subscription to the IMF, had meant a sizable outgo of Rs. 1,240 million from the reserves in that year. But for these transactions, the reserves would have shown an increase of Rs. 720 million in July 1970 to June 1971, or Rs. 290 million more than the increase this year.

Trade Deficit : Over the period January-September 1971, while the aggregate import bill increased by Rs. 1,980 million to Rs. 14,600 million, exports moved up nominally by Rs. 460 million to Rs. 10,675 million and the trade deficit widened in consequence from Rs. 2,406 million to Rs. 3,927 million.

Current Account Deficit : With a deficit trade balance of Rs. 3,927 million, net official transfer payments of +246 (million rupees) and other invisibles of — 664 (million rupees), the net current account amounted to — 4,345 (million rupees).

External Assistance : In the fiscal year 1971-72*, authorisation totalled Rs. 53,780 million recording a slight rise over the year, in contrast with the fall in the earlier years since 1969 (except in 1970-71). Loans and grants authorised amounted to Rs. 8,490 million, and Rs. 360 million respectively to bring about the rise in total assistance authorisations ; PL 480 amounted to Rs. 90 million in the year. Total utilisation of external assistance during the year 1971–72 was Rs. 56,590 million.

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* Rupee values for 1971–72 have been computed at IMF par values prevailing prior to the realignment of exchange rates on December 18, 1971.

That still left Rs. 16,080† million undisbursed at the end of March 1972.

Debt Service Charges: After rescheduling and postponement of debt service charges of Rs. 230 million in 1971-72, the actual servicing payment rose to Rs. 4,460 million. The net utilisation of external assistance thus rose to Rs. 56,590 million. As a proportion to the aid utilised, the servicing payments were 55 per cent, while as a proportion to the exports, they amounted to 29 per cent.

Foreign Aid: External assistance commitments to India during 1972-73 totalled over Rs. 7,420 million against Rs. 7,222 million in the previous year.

The Aid India Consortium has fixed a target of $1,250 million (about Rs. 9,400 million) for the year.

The World group accounted for Rs. 2,770 million out of the Rs. 7,420 million of loans extended to India during the year ending March 1973.

Following table gives an indication of the amount of foreign aid India has received, and how much of it was used from April 1951 to October 1970.

(Rs. in million)

Country	Amount Authorised*	Amount used*	Percentage share of total utilised
United States ..	71,840	67,840	56·5
World Bank & IDA	17,640	14,780	12·3
West Germany	10,040	9,070	7·6
Britain	8,490	1,150	6·0
U.S.S.R. ..	10,310	6,700	5·6
Canada	6,480	5,320	4·4
Japan	3,720	3,280	2·7
Italy	1,840	1,320	1·1
France	1,810	1,020	0·9
Czechoslovakia	970	660	0·6
Australia ..	630	610	0·5
The Netherlands	760	550	0·5
Yugoslavia ..	290	290	0·2
Poland	570	280	0·2
Switzerland ..	360	260	0·2
Belgium ..	320	220	0·2
Austria	240	210	0·2
Sweden ..	260	140	0·1
Denmark ..	140	100	0·1
Norway ..	120	100	0·1
New Zealand ..	60	50	**
Hungary ..	130	—	—
Bulgaria ..	110	—	—
Total ..	137,130	119,950	100·0

N.B. The countries are ranked in order of amount of aid utilised by India. * Includes both grants and loans. Rupee equivalents at current rates of exchange. ** Less than 0·05 per cent.

AID GIVING COUNTRIES

United States: The U.S. is the largest source of aid to India's development. The total amount received from the U.S. up to April 1971 is 9,896·3 million dollars or, at the current rate of exchange 74,222·3 million rupees.

The break-up of this figure is as follows:—

Grants (not repayable) 1,943·9 million dollars; Loans repayable in dollars 3,344·4 million dollars; Loans repayable in rupees convertible into dollars at U.S. Government option 432·2 million dollars; Local currency repayments (loans repayable in rupees or dollars at Government of India option; Cooley Fund loans to private enterprises, and amounts under P.L. 480, Title 1, agreements reserved for U.S. Government uses) 4,175·8 million dollars.

The various U.S. Agencies that disburse the aid are as follows, with the amounts sanctioned by each agency up to April 1971.

	Agency	Million Dollars	Rupees at Current rates (million)
1.	USAID Missions Tech. Co-op. Programme:		
	(*a*) Development grants not repayable.. ..	450·1	3,375·8
	(*b*) Loans (repayable in rupees or dollars) ..	154·1	1,155·8
2.	USAID development Loans:		
	(*a*) Repayable in dollars..	2,633·4	19,750·5
	(*b*) Repayable in rupees	505·8	3,793·5
3.	P.L. 480, Title I (grants & loans repayable in Rs.) ..	4,787·0	—*
4.	P.L. 480, Title II (donations not repayable)	649·4	4,870·5
5.	Emergency Flood & Famine Relief grants (not repayable)	5·5	41·3
6.	U.S. Export-Import Bank loans (repayable in dollars)	521·3	3,909·7
7.	Wheat Loan of 1951 (repayable in dollars) ..	189·7	1,422·8
	Total	9,896·3	74,222·3

* It is estimated that P.L. 480 deposits under existing agreements will total approximately Rs. 26,660 million.

Switzerland: Swiss development assistance is both multi-lateral and bilateral. Although Switzerland is not a member of the United Nations, it is a member of the U.N. specialised agencies like UNDP, FAO, WHO, UNICEF, UNESCO, etc. through which the Swiss Government channels its multi-lateral assistance.

Bilateral assistance to India

Loans: The Government of Swiss Confederation has so far provided transfer credits to the extent of 210 million Swiss francs or Rs. 362 million.

Grants: From 1961 until 31st March 1971 the Swiss Government has sanctioned a total amount of Sw. Fr. 37,291,000 (Rs. 69 million) for development grants to India. For 1970-71, the total sanction was Sw. Fr. 8,679,000 (Rs. 16 million). Out of this amount, Sw. Fr. 22,526,000 (Rs. 41,710,000) have been spent as of 31st December

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† Adjusted for devaluation of Pound Sterling and Danish Kroner in November 1967, of French Franc in August, 1969 and for re-valuation of Deutche Mark in October 1969 except in case of loans from the IBRD and the IDA which are reckoned at the parities prevailing at the time of authorisation and drawals of individual instalments.

1970. For 1970, the amount is Sw. Fr. 4,357,000 (Rs. 8 million). This does not include relief or humanitarian assistance, the amount of which was Sw. Fr. 1,947,000 (Rs. 3,600,000) in 1970.

The main projects covered by the programme are two Indo-Swiss cattle breeding and fodder development projects in Kerala and Punjab, collaboration for rehabilitation of Tibetan refugees, irrigation projects in Mysore and Maharashtra and assistance to a number of technical schools, agricultural high schools and colleges and hospitals. A number of scholarships have also been offered.

Switzerland also contributes substantial amounts to the World Bank and IDA.

New Zealand : India is the second largest single recipient of New Zealand assistance under the Colombo Plan, the total value of official aid provided up to 31st March, 1972 being approximately N.Z. dollars 8 million.

A summary of New Zealand assistance under the Colombo Plan is as follows :

	N.Z. dollars
A. *Technical Assistance*	
Trainees and Students	342,707
Experts	277,074
B. *Capital Aid Projects*	
All India Institute of Medical Sciences	2,200,000
Jet boats for Punjab Flood Relief Organisation	17,874
Milk Powder	1,243,290
Veterinary Vans	28,000
Agricultural Equipment.. ..	6,702
National Dairy Research Institute Karnal — equipment	98,142
Hostel, Aarey Milk Colony ..	170,000
Harringata Dairy Farm, Calcutta, equipment	8,400
Dairy Plant equipment :	
Delhi	1,632,700
Madras	430,000
Bombay	336,490
Lucknow	160,000
Indore	241,590
Dehra Dun	153,221
Jaipur	137,043
Anand	47,244
Patna	80,000
Dhulia	309,271
Matigara (Siliguri)	39,702
Total N.Z. dollars ..	7,959,540
C. *Projects under implementation*	
Dhulia	110,000
Matigara (Siliguri)	160,000

United Kingdom : British aid to India has taken two major forms: Longterm loans granted through the Aid India Consortium since its formation in 1958; and since 1966, these loans have been interest-free and repayable over 25 years with a seven-year grace period. The second type of assistance provided is in the form of grants through the Colombo Plan since its inception in 1951.

Financial Assistance : Following are details of loans extended during the Plan periods.

	£ million	Rs. in million
1. Second Five-Year Plan	80·5	1,449·0
2. Third Five-Year Plan ..	181·5	3,267·0
3. During 1966-67 ..	35·5	639·0
1967-68 ..	31·0	558·0
1968-69 ..	36·0	648·0
1969-70 ..	54·5	981·0
1970–71 ..	54·5	1,003·9
1971–72 ..		
Total ..	520·6	9,413·9

From this table it will be seen that the total value of British Government loans for which agreements have been signed between 1958 and 31st March, 1972, was £520·6 million (Rs. 9,413·9 million).

Of this sum £459·9 million (Rs. 8,227 million) was utilised by 31st March 1972 of which approximately £50·8 million (Rs. 963·0 million) was disbursed during the financial year 1971–72.

Major British Aided Projects

1. Durgapur Steel Plant (£ 72·1 million).
2. Heavy Electricals (India) Ltd., Bhopal (£30 million).
3. Security Paper Mill Project, Hoshangabad (£1·8 million).
4. Oil India Ltd. (£2·8 million).
5. Fertiliser Plant, Namrup, Assam (£ 4·4 million).
6. Sulphuric Acid Plant, Sindri, Bihar (£667,000).
7. Shipbuilding agreements have recently been concluded whereby Britain will provide £23 million for the construction of two 75,000 tonne bulk carriers for the Shipping Corporation of India, one 75,000 tonne bulk carrier for the Scindia Steamship Company, and one 25,000 tonne products tanker for the Great Eastern Shipping Company.
8. Fertilisers : Britain has signed agreements to help Finance the following fertiliser projects.

Indian Farmers Fertilizer Corporations Kandla/Kalol £7 million.

Southern Petrochemicals Corporation, Tuticorin £7·7 million.

Mangalore Fertilizer and Chemicals, Mangalore, £105 million.

Canada : Economic assistance to India began in 1951 with a grant of Rs. 105 million ($15 million) which was used for the purchase of Canadian wheat, electrical equipment for the Mayurakshi Hydro Electric and Irrigation Project, West Bengal, vehicles and radios for the Locust Control Programme and road transport equipment for the Maharashtra Transport Commission. Since then Canada had extended Rs. 7,650 million ($1,071·5 million) in assistance which has been used in many aspects of India's development programme. Fifty per cent of this took the form of outright grants.

Much of the balance was made up of loans of the softest terms available to India from any source — no interest, service or commitment charges, repayment in 50 years with a 10-year grace period. Canada ranks second after the United States in total bilateral net aid i.e. disbursements (less repayments) that has been provided to India. Currently Canada is directing about 30 per cent of its global bilateral assistance programme to India ; Rs. 677 million ($94·8 m.) in 1971–72.

Canadian Development Assistance to India

($ million)

	Up to March 31, 1971	1971–72	Total
Grants	613·7	40·8	654·5
Development Loans ..	220·0	54·0	274·0
Export Credits.. ..	120·0	—	120·0
Special Loans*.. ..	23·0	—	23·0
	976·7	94·8	1,071·5

* Two food loans extended in 1957. Loans were originally Rs. 231 million ($33 million) but Rs. 70 million ($10 million) outstanding in 1966 and 1967 were written off.

1971-72 Programme : In addition to projects started in previous years Canada and India during 1971 entered into agreements on several new projects and programmes. Among the ongoing ones, Canada during 1971 provided Rs. 280 million ($40 million) of gift Canadian wheat and Rs. 280 million ($40 million) of industrial commodities and fertilisers. Among the latter were aluminium zinc, lead, asbestos, woodpulp, newsprint, rubber, sulphur, NPK, potash and urea. The three new projects started this year were (1) a development loan of Rs. 21 million ($3 million) to the Oil and Natural Gas Commission for the purchase of oil exploration equipment ; (2) a Rs. 71 million ($10 million) development credit through which purchasers in the public and private sectors can buy direct from Canadian suppliers machinery, equipment and services. It is expected that most of the loan will be used for the supply of sophisticated electronics and mechanical equipment for Indian airports ; (3) a third development loan of Rs. 7 million ($1 million) provides for the purchase in Canada of machinery for the fertiliser bulk handling facilities to be constructed at the port of Kandla. The construction of these facilities will permit considerable savings in foreign exchange since fertilisers purchased in bulk are cheaper than specially packaged or bagged fertilisers.

Australia : Australian bilateral aid to India from 1951–1971 totalled $A 88·5 million. This has been in the form of outright grants under the auspices of the Colombo Plan. It has consisted of commodities such as wheat, fertilisers, copper and milk powder and wool ; capital equipment for development projects ; and technical assistance. During this period, the number of Indians trained in Australia came to 1,175 ; 94 Australian experts came to India. Some of the important projects assisted by Australia are : Tungabhadra and Ramagundam Projects, AIR, Railways, Modern Bakeries, Rajasthan Canal Project and sheep and cattle.

Upto December 1971, Australian expenditure totalled $88·5 million (Rs. 803 million) ; *viz.* Emergency Food Aid $A 47·4 million ; Economic Development $A 35·9 million ; Technical Assistance $A 5·2 million.

Budget and Foreign Aid

The budget for 1973-74 assumes credit for external loans totalling Rs. 6,618·0 million.

No credit is taken for any receipts under the PL-480 account.

The external debt repayment liability during the coming financial year will be of the order of Rs. 2,621·9 million inclusive of Rs. 76·4 million in respect of PL-480 rupee loans.

After allowing for the repayments the net receipt of external loans has been placed at Rs. 3,996·1 million.

According to the budget papers there would be no rupee loans to the Government next year out of the PL-480 reserves, and the encashment of special securities in which these funds are invested will be less because of smaller grants out of these for the Rural Electrification Corporation.

These will result in a net accretion of Rs. 371·6 million on this account.

The largest single receipt or external assistance in the coming year will be from the IDA totalling Rs. 2,223·6 million and new credits totalling Rs. 1,880 million.

The second largest will be from Japan and Britain totalling Rs. 490·7 million and Rs. 496·2 million respectively.

Canada, West Germany and France among the consortium countries and the Soviet Union outside it come next in order.

FOREIGN INVESTMENT IN INDIA

Background : After World War II, foreign enterprise came to consider India as a potential market, and not so much as a place for undertaking production activity. The processing units in India, hitherto, had been set up by the ruling country. After independence other countries also entered the Indian market with technical collaborations. India did not have much foreign exchange problem then. Due to the foreign exchange shortage in the fifties and sixties the capital transfers out of India became difficult. In spite of that, foreign investment continued to grow and brought in the much needed know-how as regards markets, technology etc., which is more important than capital.

Statistics : There are about 752 corporate bodies in India controlled by foreign enterprises (excluding 32 shipping and air companies). More than 541 are registered in foreign countries and have established places of business in India. These are registered as 'foreign companies', under Sec. 591 of the Companies Act. And nearly 223 corporate bodies are functioning as subsidiaries of foreign enterprises. The value of assets of these corporate bodies is now over Rs. 24,000 million against Rs. 80,000 million for the entire private corporate sector. The value of these undertakings aggregate roughly upto Rs. 25,000 million and contributes nearly 33 per cent of the total production of the entire private corporate sector.

Industry-wise Distribution

(Rs. million)

Industry	No. of Companies	Value of Assets
Agriculture and allied activities	129	2,453
Mining and Quarrying ..	13	387
Processing and Manufacturing	288	11,682
Construction and utilities ..	26	802
Commerce (Trade & Finance)	190	8,242
Transport, communication and storage	4	17
Community and Business services	83	517
Personnel and other services	19	55
Total	752	24,155

Following items mainly fall under manufacturing and processing :—

Cigarettes, footwear, motor vehicles, bicycles, electric lamps, electrical machinery, apparatus etc., aluminium, medical and pharmaceutical operations, washing soap and allied preparations, paints and varnishes, chemical products, kerosene and petroleum refineries, asbestos cement products, rubber and rubber manufacture, pulp, paper and paper pulp, bakery and confectionaries, dairy products etc.

The most important of these are the pharmaceutical companies, petroleum and oil, cigarettes, rubber tube and tyres with a total Indian and foreign investment of Rs. 1,110 million, Rs. 2,100 million, Rs. 740 million and Rs. 710 million respectively.

In the pharmaceutical industry 11 foreign companies (as defined in Sec. 591 of Companies Act), and 20 majority foreign-owned companies have 40 per cent of the total assets of pharmaceutical industry in India. In the cigarette industry, out of the total seven companies operating in India, 2 majority-owned foreign companies and 5 with foreign share participation, control nearly 70 per cent of cigarette production in India. In the petroleum and oil industry, the corporate bodies in India (controlled by multi-national corporations like ESSO, Shell group, Caltex, Assam Oil, British Burma etc.) control nearly 38 per cent of the assets of the entire industry. The rubber tyre and tube manufacturing is almost fully controlled by companies whose assets are owned by multi-national giants (like Firestone Tyre and Rubber Company, U.S.A., Goodyear Rubber Company, U.S.A., Dunlop Company, U.K., and Ceat Tyres, Italy).

Country-wise Distribution : The total number of foreign companies (as defined in Section 591 of the Companies Act, 1956) in India as on 31st March 1972 was 541. The countrywise distribution is given below :

United Kingdom 325, U.S.A. 89, Japan 17, West Germany 12, Pakistan 12, Switzerland 10, France 8, Canada 7, Hong Kong 8, Italy 5, Sweden 5, Netherland 6, Australia 3, Belgium 3, New Zealand 3, Panama 2, Yugoslavia 3, Bahama Island 2, Thailand 2, Sri Lanka 1, Kenya 1, Kuwait 1, Lebanon 2, Liberia 1, Luxumbourg 1, Philippines 1, Singapore 2, Tanzania 1, Uganda 3, Iran 1, Nepal 2, Aden 1, Greece 1. Total 541.

INVESTMENT AND REMITTANCES

Investments : Direct investment of foreign enterprise in corporate bodies in India which are under their effective control (excluding companies in which they have minority participation) is about Rs. 5,000 million, which is about 20 per cent of the aggregate value of their assets in India amounting to Rs. 24,000 million. Thus, nearly Rs. 19,000 million have been raised by the foreign enterprises in India from Indian sources. Out of this Rs. 1,000 million was by equity participation by Indian subscribers and Rs. 18,000 million were borrowed from banks, financial institutions, deposits from public and sundry credits.

Remittances: The total amount remitted by foreign firms out of India, profits, dividends, royalties, etc. rose from Rs. 763 million in 1969-70 to Rs. 992 million in 1970-71. The figures for the first nine months of 1971-72 were Rs. 638 million.

Profits remitted by the top nine foreign firms during 1971-72 are given below :

Malayalam Plantations (U.K.) Rs. 10,906,380 ; National and Grindlays Bank (U.K.) Rs. 9,088,493 ; First National City Bank (U.S.A.) Rs. 9,047,781 ; Coca-Cola Export Corpn. (U.S.A.) Rs. 6,057,512 ; American Express (U.S.A.) Rs. 3,656,555 ; Bank of America (U.S.A.) Rs. 3,524,165 ; Assam Frontier Tea Co. Calcutta (U.K.) Rs. 2,865,708 ; Cadbury Overseas (U.K.) Rs. 2,599,218 ; Chese Borough Ponds Inc. (U.S.A.) Rs. 2,268,283. EID Parry was the only foreign incorporated Company which made remittances on account of royalty and the amount remitted was Rs. 18,516.

Policy : In spite of the significant role played by foreign capital and know-how in the rapid industrial growth of India in the fifties and sixties, Government of India has placed certain restrictions on foreign collaborations, e.g. :

1. Majority foreign equity participation is not encouraged, except in fields where India has made little or no progress or where development is urgently needed. The Government tries to ensure that effective control remains in the hands of Indians.
2. The principal of wholly-owned subsidiaries is discouraged.
3. Where majority foreign participation is approved, the remittance of royalties is on a reduced basis.
4. In collaborations having high profit margins the remittances are related to the foreign exchange earned by the foreign collaborators.
5. Stress is laid by Government on rapidity of growth and equitable distribution of income generated by such ventures and that Indian personnel be trained to replace foreign technicians as early as possible.

Joint Ventures : After the foreign exchange crisis of 1958, the system of joint ventures was recommended to secure equity capital. Before this foreign enterprise was allowed to take equity participation to provide foreign exchange for machinery and equipment. Even for the technical collaboration, the collaborators were allowed to accept equity instead of royalties and fees.

However, foreign investors prefer to operate in India through wholly-owned subsidiaries rather than joint ventures. It makes it easier for them to part with their know-how ; sell the products at preferential prices ; provide working funds without interest payments ; strengthen their international net-work ; bring down the unit cost ; and thus increase exports.

Hence Indian industrial growth is based partly on foreign equipment and know-how and partly on its own man-power and money. (Data furnished here does not include corporate bodies in which foreign enterprises hold minority interest, as it is not readily available.)

Five Year Plan : Average annual inflow of foreign capital during the Fourth Five Year Plan is envisaged at Rs. 600 million. However, the gross inflow of foreign investments during 1969–70 (the first year of the current Plan) was Rs. 810 million out of an overall total outstanding foreign private investment which stood at Rs. 15,420 million upto March 1968.

Overall Trends : Growing interest of foreign investors and industrialists in India is apparent from the number of proposals for collaborations approved by the Government of India which stood at 257, 245 and 183 during 1972, 1971 and 1970.

IMPORT AND EXPORT TRADE

General Indices of Exports and Imports (1958 = 100)

	1968-69	1969-70	1970-71	1971-72
Quantity Index :				
Exports..	142	143	153	151
Imports..	151	128	127	139
Price Index :				
Exports..	166	171	173	180
Imports..	141	140	147	149

INDIA'S FOREIGN TRADE

(Rs. million)

	Imports	Exports	Balance of Trade	Exports as per cent of imports
1967-68 ..	19,864	11,987	—7,877	60·3
1968-69 ..	19,102	13,578	—5,524	71·1
1969-70 ..	15,820	14,087	—1,733	89·0
1970-71 ..	16,342	15,353	— 989	93·9
1971-72 ..	18,056·4	15,686·1	—2,370·3	86·8

TRENDS IN INDIA'S FOREIGN TRADE DATA FOR ALL REGIONS AND PRINCIPAL COUNTRIES

(Rs. million)

		1970-71		1971-72	
		Imports	Exports	Imports	Exports
I	*Africa*	1,698·4	1,381·6	1,437·6	1,319·1
	Congo	211·8	2·1	64·3	5·4
	Ethiopia	..	26·2	..	20·4
	Ghana	27·7	10·3	5·4	11·8
	Kenya	26·8	78·5	176·8	78·3
	Libya	..	16·5	..	18·3
	Morocco	75·1	18·6	19·8	8·5
	Sudan	209·3	382·6	253·2	517·4
	Tanzania	176·4	43·9	184·6	41·3
	Egypt	398·3	552·8	332·2	230·5
	Zambia	272·5	29·5	209·4	59·2
	Others	300·5	220·6		328·0
II	*North America*	5,701·8	2,347·3	5,293·3	3,021·9
	Canada	1,172·2	279·5	1,128·0	394·0
	U.S.A.	4,529·5	2,067·8	4,165·2	2,627·8
III	*Latin America*	142·6	83·0	57·4	125·8
IV	*Other American Countries*	15·6	20·3	9·3	28·0
V	*ECAFE Countries*	3,643·7	4,078·5	3,613·1	3,831·5
	Afghanistan	95·8	140·9	48·0	98·1
	Australia	365·8	243·9	293·8	279·2
	Bangla Desh	..	3·3	..	27·2
	Burma	96·3	140·0	58·7	107·8
	Sri Lanka	29·5	318·1	14·5	212·1
	China (Formosa)	2·6	19·5	3·6	51·2
	Hong Kong	8·3	171·3	22·0	154·6
	Iran	916·3	266·3	1,263·5	197·4
	Japan	834·3	2,021·4	1,615·6	1,817·0
	Korea (Republic)	3·5	20·1	27·7	52·9
	Malaysia	57·5	117·3	38·4	117·2
	Nepal	94·3	234·5	102·6	284·3
	Philippines	9·7	13·5	2·9	14·1
	Singapore	11·7	174·9	29·8	175·1
	Thailand	94·7	56·9	37·6	46·0
	Others	1,023·4	136·6	54·4	197·3
VI	*Other Asian & Oceanic Countries, Antarctic & Arctic Region*	388·1	717·9	627·0	625·2
VII	*East European Countries*	2,276·5	3,623·0	2,017·5	3,434·7
	Bulgaria	154·8	95·8	138·0	154·8
	Czechoslovakia	202·0	294·3	101·6	304·4
	Germany (Democratic Rep.)	186·3	244·8	202·3	179·4
	Hungary	149·5	137·7	86·7	155·0
	Poland	280·2	221·1	495·7	199·1
	Rumania	165·7	137·0	133·0	111·3
	U.S.S.R.	1,061·2	2,098·4	816·5	2,086·7
	Yugoslavia	76·5	393·5	43·3	243·7

TRENDS IN INDIA'S FOREIGN TRADE DATA FOR ALL REGIONS AND PRINCIPAL COUNTRIES—*Contd.*

(Rs. million)

		1970-71		1971-72	
		Imports	Exports	Imports	Exports
VIII	*E.C.M. Countries*	1,884·0	981·5	2,493·1	1,237·7
	Belgium	115·1	203·1	343·0	240·3
	France	213·3	179·4	361·0	241·2
	Germany (Fed. Rep.)	1,074·7	321·5	1,239·0	367·4
	Italy	288·6	138·5	244·1	241·4
	Netherlands	190·8	138·7	305·8	147·1
IX	*European Free Trade Area Countries*	1,560·2	1,887·5	2,467·6	1,880·0
	Austria	23·6	6·0	24·5	8·3
	Denmark	34·7	41·1	31·1	38·5
	Norway	20·6	8·8	38·4	17·2
	Sweden	97·9	59·3	126·5	60·2
	Switzerland	115·6	72·2	78·3	74·7
	United Kingdom	1,267·6	1,699·9	2,168·6	1,680·8
X	*Other European Countries*	60·8	122·9	40·1	131·2
	TOTAL	16,341·9	15,243·8	18,056·4	15,635·4
	Value of articles Under Reference	12·6	—	63·7	—
	GRAND TOTAL	16,341·9	15,243·8	18,120·1	15,635·4

I. STERLING AREA

A. Western Hemisphere: Bahama Islands; Barbados; Bermuda; British Honduras; British West Indies and Tonga; Falkland Islands; Guyana; Jamaica; Leeward and Windward Islands and Trinidad and Tobago. Total 10.

B. Europe: Gibraltar; United Kingdom; Iceland and Irish Republic. Total 4.

C. Africa: Tanzania; Kenya; Uganda; Nigeria; Libya; Mauritius; Republic of Malawi; Seychelles; Sierra Leone; South Africa; St. Helena; Swaziland; Ghana; Gambia Republic; Lesotho; Botswana and Republic of Zambia. Total 17.

D. Middle East: Aden; Cyprus; Malta; Pakistan; Jordan; Persian Gulf Ports (Others); Bahrein; Doha; Dubai; Kuwait and Muscat. Total 11.

E. Far East: Australia; Bhutan; Federation of Malaysia (including British Borneo) (Sabah), Sarawak and Straits Settlements (Malaya); Fiji Islands; Hong Kong; India; Maldive Islands; New Zealand; Sikkim; Sri Lanka; Western Samoa and Singapore. Total 12.

II. DOLLAR AREA

U.S.A.; Bolivia; Canada; Colombia; Costa Rica; Dominican Republic; Ecuador; Gautemala; Haiti; Liberia; Philippines; Honduras; Mexico; Nicaragua; Panama; El Salvador and Venezuela. Total 17.

III. O.E.C.D. COUNTRIES

(Organisation for Economic Co-operation & Development Countries)

Austria; Belgium; Canada; Denmark; Finland; France; West Germany; Greece; Holland (Netherlands); Iceland; Ireland; Italy; Japan; Luxembourg; Norway; Portugal; Spain; Sweden; Switzerland; Turkey; United Kingdom; U.S.A. *Special Status:* New Zealand and Yugoslavia. Total 24.

IV. REST OF THE WORLD

A. Western Hemisphere: Argentina; Brazil; Chile; Dutch West Indies (Paramaribo, Aruba, Curacao, Surinam and Antilles); French Guiana; Paraguay; Peru; Uruguay; French West Indies and Cuba. Total 10.

B. Europe: Albania; Bulgaria; Czechoslovakia; Finland; Hungary; Poland; Rumania; U.S.S.R.; Vatican City; Yugoslavia; German Democratic Republic and Monaco. Total 12.

C. Africa: Algeria; Burundi; Cameroun; Central African Republic; Chad; Congo-Leopoldville; Congo-Brazzaville; Dahomey; Ethiopia; Eritrea; French Somali Coast; Gabon; Guinea Republic; Ivory Coast; Malagasy Republic (Madagascar); Mauritania; Morocco; Niger; Portuguese Africa (Angola, Mozambique, Portuguese Guinea); Republic of Mali; Reunion Islands; Ruanda; Senegal; Somalia Republic; Spanish Morocco (Ifni); Spanish West Africa (Canary Islands); Sudan; Tangier; Togoland; Tunisia; Egypt; Upper Volta and Southern Rhodesia. Total 33.

D. Middle East: Afghanistan; Saudi Arabia; Iran; Iraq; Israel; Lebanon; Syrian Arab Republic and Yemen. Total 8.

E. Far East: Nepal; Cambodia; China; Democratic Republic of Viet Nam; Democratic Republic of Korea (North Korea); Formosa; Indonesia; Japan; Lagos; Macao; Mongolian People's Republic; Republic of Viet Nam; New Caledonia; New Hebrides; Pacific Islands not included elsewhere; South Korea; Tahiti; Thailand; Tibet; Timor and Burma. Total 21.

F. Countries with whom India has Rupee payment agreements: Bulgaria; Czechoslovakia; German Democratic Republic; Hungary; Poland; Rumania; U.S.S.R.; Yugoslavia and Egypt. Total 9.

EXPORT PROMOTION COUNCILS

Basic Chemicals, Pharmaceuticals and Soaps Export Promotion Council

7, Cooperage Rd., Bombay 400001.

Looks after the exports of chemicals, pharmaceuticals, dyes, soaps, cosmetics and agarbathis.

Branch Office: 12, Mount Rd., Madras 600006.

Overseas Correspondent: Kirit M. Shah, C/o. Indian Trade Representative, 545/547, Merchant Street, Rangoon, Burma.

Cashew Export Promotion Council

World Trade Centre,
M. Gandhi Rd, Ernakulam, Cochin-682016 India.

Deals in: Cashew kernels and cashewnut shell liquid.

Chemicals and Allied Products Export Promotion Council

14/0B, Ezra Street, Calcutta-700001

Branch Offices: (*i*) Commerce Centre, Block D-17, Tardeo Rd., Bombay 400034; (*ii*) *Joint Regional Office of Capexil & Chemexil:* 123, Mount Rd., Madras-600001.

Overseas Correspondents: (*i*) C. P. Goonetilleke, C/o. First Secretary (Comm.), State Bank of India Bldg., Entrance Baillie Street, Colombo, Sri Lanka; (*ii*) K. M. Shah, P. O. Box No. 383, Embassy of India, 545/547, Merchant Street, Rangoon, Burma; (*iii*) Messrs. Gathani Ltd., Gathani House, Huddersfield Road, Industrial Area, Nairobi, Kenya; (*iv*) M. K. Unnithan, P. O. Box N. 975, Bangkok, Thailand; (*v*) Messrs Dolly Enterprises, P. Box No. 16061, Hong Kong.

Cotton Textile Export Promotion Council

Engineering Centre, Mathew Rd., Bombay 400004.

Branch Offices: (*i*) Jaldarshan Housing Society, Opp. Nataraj Cinema, Ashram Rd., Ahmedabad 380009; (*ii*) 14-1B, Ezra St., Calcutta 700001; (*iii*) 13-A, Vincent Colony, Govind Singh Rd., R. S. Puram, Coimbatore 641002; (*iv*) 704, Akash Deep, 26-A, Barakhamba Rd., New Delhi 110001. (*v*) C/o. Madhya Pradesh Textile Mills Association, No. 8, South Tukoganj, Street No. 1, Indore.

Overseas Representatives: (*i*) M. Chakraborty, C/o. Embassy of India, 545/547, Merchant Street, Rangoon, Burma; (*ii*) K. Vasudevan, P. O. Box No. 1186, Nairobi, Kenya; (*iii*) P. J. Jacob, Consulate General of India, Wilhelm Leuschner Str. 93, 6, Frankfurt/Main, West Germany; (*iv*) M. M. Ratnam, 12, Kendal Drive, Gatley, Manchester (U.K.)

Engineering Export Promotion Council

World Trade Centre, 14/1B, Ezra Street, Calcutta 700001.

Branch Offices: (*i*) Commerce Centre, 2nd Floor, Tardeo Rd., Bombay 400034; (*ii*) Surya Kiron, 19, Kasturba Gandhi Marg, New Delhi; (*iii*) Sire Mansion, 3rd Floor, 123, Mount Rd., Madras 600006. (*iv*) India Exchange, 7th Floor, Calcutta 700001.

Overseas Representatives: (*i*) A. K. Ramdas, Comestra Building (Opp: Mobil Offices), Post Box No. 6582, Wardieh Square, Beirut, Lebanon; (*ii*) S. R. Mazumdar, Indische Technische Handelsberatung, 4, Duesseldorf, Immermanstr — 59, West Germany; (*iii*) A. M. Mitra, Apollo House, 56 New Bond Street, London W.I.Y. 9 DG; (*iv*) D. K. Bakshi, Room No. 115, St. George House, Parliament Road, P. O. Box No. 2030, Nairobi, Kenya; (*v*) S. K. Khasnavis, 2/1B, Ambar Mansions, Orchard Road, P. O. Box 6, Killeny Rd., Post Office, Singapore-9; (*vi*) D. S. Ahluwalia, 333, North Michigan Avenue, Chicago, Illinois 60601, U.S.A.

Overseas Correspondents; (*i*) Kirit M. Shah, 545/547, Merchant St., Rangoon; (*ii*) R. A. Beaufoy Pvt. Ltd., Dolphin Terracc, 78, Archir St., North Adelaide, South Australia.

Export Promotion Council for Finished Leather and Leather Manufactures

15/46, Civil Lines, P. Box 198, Kanpur.

Deals in: Finished leather and leather goods.

Branch Offices: (*i*) Research and Development Cell, 3/278, M. G. Rd., (Dhakran Chouraha), Agra 282002.; (*ii*) 'Niranjan', 2nd Floor, 99, Marine Drive, Bombay 400002; (*iii*) Mercantile Building, First Floor, Lallbazar St., Calcutta 700001; (*iv*) 'Marble Hall', 3/38, Vepery High Rd., Madras 600003.

Gem and Jewellery Export Promotion Council

D-15, Commerce Centre, 4th Floor, Tardeo Road, Bombay 400034.

Export organisation to step up the exports of Indian gems and jewellery such as diamonds, precious/semi-precious stones, pearls, synthetic stones, precious metal jewellery, imitation jewellery and sales to foreign tourists.

Handloom Export Promotion Council

123, Mount Road, Madras 600006.

Leather Export Promotion Council

Marble Hall, 3/38, Vepery High Rd., Madras 600003.

Deals in: E.I. Tanned hides and skins, pickled goat skins, bark tanned raptile skins, goat hair and tanning materials.

Marine Products Export Development Authority,

World Trade Centre, M. G. Rd., Ernakulam, Cochin 682016.

A statutory body responsible for the development of the marine products industry with special reference to exports.

Overseas Representative: Office Indien Des Produits Alimentaires, Centre Regier, Hall Hermes, Bureau 211-212, Bruxelles, Belgium.

Plastics and Linoleums Export Promotion Council

Nyloc House, 254-D2, Dr. A. Besant Rd., Bombay 400025.

Deals in: Plastic goods and linoleum.

Regional Offices: (*i*) 123, Mount Rd., Madras 600006; (*ii*) 14/1B Ezra St. Calcutta 700001.

Processed Food Export Promotion Council

R-15, N. D. S. E-Part II, New Delhi 110049.

Deals in: Processed food items not covered by the Spices Export Promotion Council and Marine Products Export Promotion Council.

Shellac Export Promotion Council

14/1B Ezra Street, Calcutta 700001.

Deals in: Seedlac, shellac and lac manufactures.

Silk and Rayon Textile Export Promotion Council

Resham Bhavan, 78, Vir Nariman Road, Bombay 400001.

Deals in: Silk and art silk piecegoods.

Branch Offices : (*i*) Resham Bhavan, Plot No. 3D/E, Lal Darwaza, Surat 395001 ; (*ii*) 3A, Diwan C. Mehra Road, Amritsar 143001.

Spices Export Promotion Council

World Trade Centre, M. Gandhi Road, Ernakulam, Cochin 682016.

Deals in : All spices such as pepper, cardamom, chillies, ginger, turmeric, curry powder etc.

Sports Goods Export Promotion Council

1E/6, Jhandewalan Extension, New Delhi 110055.

Deals in : Sports goods.

Tobacco Export Promotion Council

123, Mount Road, Madras 600006.

Deals in : Tobacco and its manufactures.

Sub Office : Old Club Rd., Kothepeta, Guntur 522001 (A.P.).

Wool and Woollens Export Promotion Council

Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Deals in : Promotion of Indian woollen exports.

Branch Office : D.C.'s Residence Road, Civil Lines, Ludhiana 141001.

BANKING

As many as 1,612 (936 in unbanked centres) new branches were opened between July 1971 and June 1972, (against 1,890 during July 1970 and June 1971). Of these, 821 branches were opened by 14 nationalised banks, 439 by State Bank of India and its subsidiaries, 340 by other scheduled banks, and 12 by non-scheduled commercial banks. The total number of bank offices stood at 13,620 on 30th June 1972. Of 5,375 offices opened since nationalisation, upto end June 1972, 3,416 branches were in unbanked centres.

Data released by the Reserve Bank of India in September, 1972 reveals that as many as 988 and 335 branches were opened in the rural and semi-urban centres respectively, during this period, while 138 and 146 new branches were opened in urban and metropolitan centres respectively.

In the allocation of credit to the priority sector, the advances of the scheduled commercial banks to the agriculitural sector had risen from Rs. 3,820 million at the end of June 1971 to Rs. 3,950 million at the end of December 1971. Advances to the small industrial units increased from Rs. 5,000 million to Rs. 5,450 million ; other priority sectors including retail trade increased from Rs. 1,440 million to Rs. 1,630 million ; large and medium industry, wholesale trade and others from Rs. 33,530 to Rs. 35,840 ; exports increased from 3,810 million to Rs. 4,590 millions ; and food procurement operations Rs. 3,790 to Rs. 3,650 million. The total bank credit went up to Rs. 50,520 million in Dec. 1971 from Rs. 47,580 million in June 1971.

National income in 1971-72 fiscal year was expected to around Rs. 195,050 millions (at 1960-61 prices) and Rs. 368,00 (at current prices). The deposits aggregated at Rs. 75,235 millions on end June 1972, showing an increase of Rs. 13,073 millions during the year. The credit deposit ratio was much lower during the year. It was 73·1 per cent against 77 per cent in the previous year.

With all these achievements the nationalised banks have touched only the fringe of the problem of becoming the reliable and suitable ally of the most needy in the urban and rural areas. India is still far behind countries like Japan, USA and Canada where deposits as a proportion of national income is 84 per cent, 56 per cent and 49 per cent respectively.

Another disappointing feature of banking in India is the fact that the average population served by commercial banks' offices though improved from 65,000 to 46,000 per bank office (at the end of May, 1971) and to 40,000 (at the end of June 1972), is yet very high against 4,000 in Britain, 7,000 in the US, 15,000 in Japan and 11,000 in Iran.

Working Results of Public Sector Banks : An analyis of working results of 22 public sector commercial banks (i.e. State Bank of India, its seven subsidiaries and 14 nationalised Indian banks) reveal, that their profits at Rs. 128 million, for the year 1971 showed an improvement of Rs. 27 million (26·2 per cent) over that for 1970. The total income of these banks increased by Rs. 1,010 million (24·5 per cent) during 1971 as compared to a rise of Rs. 763 million (22·7 per cent) during 1970. The increase in the income during 1971 was mainly due to the rise in earnings from interest and discount, which rose by Rs. 916 million in 1971 as compared to a rise of Rs. 715 million in 1970. The rise in interest income was mainly due to the stepping-up of the rates of interest on advances following the rise in Bank rate from January 9, 1971 and the increase in the level of their advances. The total expenses of these banks increased by Rs. 983 million (24·5 per cent) in 1971 as compared to an increase of Rs. 752 million in 1970. Interest paid on deposits and borrowings showed an increase of 27·0 per cent as compared to a rise of 19·9 per cent in 1970, partly owing to the rise in interest rates on deposits and borrowings. The rise in the expenditure on salaries and allowances amounting to Rs. 359 million (21·7 per cent) in 1971 was, however, lower than that in 1970, when it had increased by Rs. 365 million or 28·4 per cent, reflecting smaller increase in the number of banking offices in 1971 than in 1970.

State Bank Group : Total income of the State Bank of India improved from Rs. 1,127 million in 1970 to Rs. 1,421 million in 1971. Income from commission, exchange and brokerage increased by Rs. 34 million in 1971 as compared with a fractional increase of only Rs. 6 million in 1970. The Bank's expenditure also increased by Rs. 283 million (25·7 per cent) in 1971. In 1970, the rise in total expenses was of the order of Rs. 214 million or 24·1 per cent. The profits of the State Bank of India, at Rs. 38 million in 1971, recorded an increase of Rs. 11 million (40·0 per cent) as against a small decline of Rs. 1 million in 1970. Out of these profits, the Bank transferred Rs. 20 million to Reserve Fund and provided Rs. 13 million for dividend to shareholders.

The seven subsidiary banks of the State Bank increased their income from Rs. 325 million in 1970 to Rs. 402 million in 1971 mainly on account of larger interest earnings from loans and advances. Since their expenditure also increased by almost the same extent as the income, their profits showed a marginal decline of Rs. 0·2 million in 1971 as against a rise of Rs. 1 million in 1970. Out of the profits, these banks transferred Rs. 1·2 million to reserves and provided Rs. 3·6 million for payment of dividend.

State-wise distribution of bank offices at the end of June 1970, June 1971 and June 1972

States	Opened during 1970-71		Opened during 1971-72		Population per bank office (in thousands) as at the end of		No. of offices at the end of		
	Total	Of which unbanked centres	Total centres	Of which unbanked centres	June 1971	June 1972	June 1970	June 1971	June 1972
1. Andhra Pradesh	147	95	90	44	50	45	722	869	959
2. Assam	26	23	27	22	120	98	96	122	149
3. Bihar	92	62	88	68	124	104	361	453	541
4. Gujarat	187	106	129	83	24	22	919	1,105	1,234
5. Haryana	39	19	41	29	39	34	219	258	299
6. Himachal Pradesh	25	23	21	19	40	32	62	87	108
7. Jammu & Kashmir	27	13	15	8	46	40	74	101	116
8. Kerala	132	100	136	92	25	22	713	845	978
9. Madhya Pradesh	107	62	103	58	73	62	460	566	669
10. Maharashtra	167	86	208	77	34	30	1,304	1,471	1,679
11. Manipur	3	3	1	1	215	178	2	5	6
12. Meghalaya	4	4	1	—	67	63	11	15	16
13. Mysore	170	107	168	107	26	23	954	1,124	1,292
14. Nagaland	1	1	—	—	103	103	4	5	5
15. Orissa	40	30	19	12	126	114	133	173	192
16. Punjab	91	55	95	59	24	21	465	556	651
17. Rajasthan	93	61	45	25	49	45	432	525	570
18. Tamil Nadu	164	107	115	73	30	28	1,213	1,371	1,484
19. Tripura	6	6	—	—	130	130	6	12	12
20. Uttar Pradesh	215	142	177	107	77	67	932	1,147	1,324
21. West Bengal	96	67	76	40	65	58	588	684	760
Union Territories :									
22. Andaman & Nicobar Islands	—	—	2	1	57	29	2	2	4
23. Arunachal Pradesh	3	3	2	2	156	94	—	3	—
24. Chandigarh	2	—	5	—	9	8	26	28	33
25. Dadra & Nagar Haveli	2	2	1	1	25	19	1	3	4
26. Delhi	32	2	35	1	12	10	318	350	385
27. Goa, Daman & Diu	10	9	7	4	8	7	101	111	118
28. Laccadive, Minicoy & Amindivi Islands	2	2	—	—	16	16	—	2	2
29. Mizoram	—	—	1	1	—	332	—	—	1
30. Pondicherry	7	4	4	2	24	20	13	20	24
TOTAL	1,890	1,194	1,612	936	46	40	10,131	12,013	13,260

Source : Annual Report and Trend and Progress of Banking in India (1971-72).

Nationalised Banks : The fourteen nationalised banks, after meeting all their expenses and providing for usual provisions, transferred to the Government of India Rs. 44·3 million in 1971 as compared to Rs. 41·7 million in 1970.

The working results of the fourteen nationalised banks for 1971 reveal an improvement in their profits from Rs. 69 million in 1970 to Rs. 85 million in 1971. This improvement in profits occurred despite a sharp rise in their expenditure.

The total income of these banks increased by Rs. 638 million to Rs. 3,306 million in 1971 ; in 1970, it had increased by Rs. 494 million. Interest payment on deposits and borrowings increased by Rs. 344 million in 1971 as compared to a rise of Rs. 213 million in the preceding year. However, the increase of establishment expenditure was only Rs. 211 million in 1970. The profits of these banks, therefore, rose by Rs. 16 million in 1971, as compared to a rise of Rs. 11 million during the preceding year. Out of the profits during 1971, the nationalised banks transferred Rs. 394 million to reserves and Rs. 44·3 million to Government of India.

PROGRESS OF BANKING

Item	June 1969	June 1972
BANK OFFICES (No.)	8,262	13,620
(*a*) Rural	1,832	5,267
(*b*) Semi-urban	3,322	4,351
(*c*) Urban	1,447	1,916
(*d*) Metropolitan centres	1,661	2,086

Working of Scheduled Commercial Banks other than Public Sector with Deposits of over Rs. 100 million:

The working results of 25 private sector scheduled commercial banks (including foreign banks) with deposits of over Rs. 100 million as at the end of December 1971 showed an improvement in their profits from Rs. 39 million in 1970 to Rs. 46 million in 1971, i.e., an increase of 163 per cent. The total income of these banks went up by Rs. 187 million (26 per cent). The increase in income was mainly due to an improvement in earnings from interest and discount, which rose by Rs. 155 million to Rs. 744 million in 1971. The rise was mainly due to higher rates of interest charged by them on advances, following the rise in Bank rate from January 9, 1971 and an increase in the level of their advances. The interest paid on deposits and borrowings showed an increase of Rs. 85 million (27·4 per cent) in 1971 partly due to the rise in interest rates on deposits and borrowing and partly due to increase in interest bearing deposits. There was also a rise in the expenditure on salaries and allowances by Rs. 450 million an increase of 22·8 per cent over 1970. A part of the rise in the expenditure on salaries and allowances was accounted for by an increase of 249 in the number of offices in 1971.

Private Sector Indian Scheduled Banks : The total income of private Indian scheduled banks with deposits exceeding Rs. 100 million improved from Rs. 270 million in 1970 to Rs. 356 million in 1971, an increase of 31 per cent over the year. The increase in income was mainly due to interest and discount earned at Rs. 308 million in 1971 as against Rs. 232 million in the previous year. The substantial increase in the income was not, however, reflected in a corresponding increase in net profits, which increased only by Rs. 4 million during the year. The increase in gross income was more or less offset by increase in interest on deposits and borrowings and salaries and allowances, etc. Some of the banks in this group, however, showed a better performance mainly due to a higher level of advances and consequently improved earnings from interest.

Foreign Banks : There was an increase of Rs. 103 million (22·9 per cent) in the gross income of six foreign banks in 1971. Their establishment expenses during the last three years expressed as percentage to gross income have declined from 27·1 per cent in 1969 to 25·2 per cent in 1971, the comparable ratios of 14 major nationalised banks being 32·9 per cent and 30·9 per cent, respectively. The published net profits of these banks showed an improvement from Rs. 28 million in 1970 to Rs. 31 million in 1971, a rise of 10·7 per cent over the year. The percentage of net profits of these banks as a group to working funds was higher as compared with the Indian scheduled commercial banks due to the following factors : (*a*) the foreign banks operate mostly in metropolitan cities, (*b*) they deal mainly in foreign exchange business, and (*c*) they generally have large-scale transactions. The Indian banks, on the other hand, deal not only with these types of business but also make advances to farmers, small industries and other small borrowers both in urban and rural areas.

SELECTED DATA FOR SCHEDULED COMMERCIAL BANKS

Item	June 1968	June 1971	End June 1972
1. No. of offices ..	7,044	11,554	13,620
2. Aggregate deposits (Rs. million) ..	39,691	61,899	75,235
3. Deposits as % of national income ..	14·1	18·0	—
4. Total bank credit (Rs. million) ..	31,029	47,758	53,771
5. Credit deposit ratio (%)	78·2	77·2	71·5
6. Investments in Government and other approved securities	11,607	17,989	22,401
7. Investment deposit ratio (%)	29·2	29·1	29·8
8. Cash in hand and balances with Reserve Bank	2,695	3,935	4,474
9. Cash deposit ratio (%)	6·8	6·4	—

NATIONALISATION OF BANKS

14 Banks were nationalised by ordinance on 20th July 1969.

Names of the 14 Banks and the names of custodians are given below :

Central Bank of India, B. N. Adarkar ; Bank of India, J. N. Saxena ; Punjab National Bank, P. L. Tandon ; Bank of Baroda, V. D. Thakkar ; United Commercial Bank, V. R. Desai ; Canara Bank, K. P. J. Prabhu ; United Bank of India, B. K. Dutt; Dena Bank, R. A. Gulmohamed ; Syndicate Bank, K. K. Pai ; Union Bank of India, P. F. Gutta; Allahabad Bank, B. K. Mookerjea ; Indian Bank, G. Lakshminarayan ; Bank of Maharashtra, C. V. Joag ; Indian Overseas Bank, R. N. Chettur.

BULLION

Gold : Quest for gold is centuries old, but, it has been available in any real quantity only for the last hundred and twenty years. The gold mined between 1492 and 1970, is estimated to be 73,000 tonnes. But more gold had been mined from 1800 to 1970 than in the preceding 5000 years, due to more discoveries in Brazil, Russia, California (U.S.A.), Australia and South America. Three quarters of the total had been mined in the 20th century, and nearly two-thirds of it, since 1931.

International Price of Gold : International price of gold is $38 per troy ounce.

Except France all other countries followed the 1944 Bretton Woods Agreement by which gold could be replaced by U.S. $ as the basis for international trade and finance.

The dollar and sterling hold less than 34 per cent of all countries' gold holdings and the European 'six' hold about 43 per cent.

World Gold Holdings :

(In millions of U.S. $: End of Period)

	1970 IV	1971 IV	1972 Dec.
Countries holdings	37,170	39,155	38,905
Official holdings	41,270	44,690	45,000

Source : International Financial Statistics.

Consumption of Gold : India's consumption of gold is estimated to be around 0·33 gms. per person.

Absorption of non-monetary gold has been estimated differently by different authorities. However, according to a recent study (by Lloyd-Jacob and Fells of Consolidated Goldfields Ltd.) the major consumer, jewellery, absorbs about 959 tonnes per year (or 73 per cent of total production) ; electronics absorb 111·5 tonnes ; dentistry claims 91·5 tonnes ; and coins, medals 81·5 tonnes and

GOLD PRODUCTION

In million U.S. dollars at 35 U.S. dollars per Fine Ounce through 1971 and at 38 U.S. dollars per Fine ounce beginning 1972. Annual Date or Annual Average Rates

	1971	1971		1972		
		III	IV	I	II	III
South Africa	1,098·7	1,109·1	1,083·4	1,101·0	1,127·9	1,130·4
Canada	77·3	73·0	75·0	78·3	82·0	74·3
United States	52·3	—	—	—	—	—
Other African Countries	—	—	—	—	—	—
Ghana	24·4	25·4	25·5	26·5	27·1	—
Rhodesia	—	—	—	—	—	—
Congo Dem. Rep.	6·0	6·4	5·2	—	—	—
Latin America	—	—	—	—	—	—
Colombia	6·6	9·2	6·7	7·3	7·7	6·7
Mexico	5·3	4·6	4·6	5·6	6·2	6·7
Nicaragua	3·7	4·6	3·1	2·7	4·1	2·9
Peru	—	—	—	—	—	—
Asia	55·3	—	—	—	—	—
Philippines	22·2	23·1	21·1	22·3	22·2	23·8
Japan	27·0	20·0	27·0	29·5	29·1	35·0
India	4·1	4·1	3·7	4·1	4·1	4·1
Europe	—	—	—	—	—	—
Oceania	27·8	—	—	—	—	—
Australia	23·9	25·0	24·7	31·5	28·9	—
World Total	—	—	—	—	—	—

other industrial and decorative uses 69·5 tonnes of gold per year. Averages for 1968–69–70 show that 1,361 tonnes of private gold is absorbed out of which 48 tonnes is retained in the form of bars, and the rest is fabricated. It has also been estimated that 60 per cent of gold is bought by fabricators for 'pure consumption' and only 6·5 per cent is acquired for 'pure hoarding'. The rest of the purchases fall in between including speculation.

Gold Standard : The true gold standard existed only in the 50 years preceding World War I. Till the 19th century most countries were on silver or bi-metallic (silver 15 or 16 part, gold 1 part) standard. Britain went onto a formal gold standard in 1816, Europe followed in 1870s and U.S.A. started after 1900 — same time as India. However, gold standard was only a phase and was over by 1914. Today International Gold Exchange standard prevails. This means a country's monetary authority responsible for determining and managing the supply of gold supplement their reserves with key currencies (notably dollars and sterling) which can be redeemed for gold.

India and Gold : Indian gold market is quite different from the international market. India has the world's largest stock of privately hoarded gold. The mobilisation of this gold could effect the international market also. But this is unlikely to happen unless a social revolution takes place. As long as gold prices continue to rise and gold continues to be smuggled into India, India's economy will remain in the dread of devaluation. As a protective measure, India's hoarded gold should be coaxed into the market and also India's gold output of 120,000 oz. per year should be stepped up.

SILVER

Production of silver in India is only around one tonne a year. Considering the consumption of 16 million ounces per year of silver and almost 20-million ounces that are smuggled out of the country, it is obvious that the demand is being met by floating stocks. No accurate estimate is possible, but such stocks are likely to be around 2,000 million ounces.

World Silver supplies : Million ounces

Production	1968	1969	1970
U.S.A.	32·7	41·9	44·5
Canada	45·6	43·1	43·9
Mexico	40·0	42·9	40·2
Peru	36·0	37·0	37·0
India	0·09	0·04	0·04
Other countries	80·5	81·50	81·0
Other supplies	327·0	199·3	175·6

Source : Handy and Harman.

Consumption : Internal consumption of silver has been consistent around 16 million ounces a year. The annual contraband export amounts to more than 20 million ounces which is sold at a lower price abroad presumably to pay for certain other smuggled items like gold, synthetic yarn, watches etc. which fetch a higher premium in India.

World Silver Consumption : (in million ounces)

Country	1968	1969	1970
U.S.A.	182·0	161·4	135·7
W. Germany	50·0	50·0	48·2
Japan	35·0	40·4	45·5
Italy	23·0	29·0	27·9
U.K.	23·0	25·0	25·0
France	20·9	18·6	19·7
India	16·0	16·0	16·0
Canada	15·0	5·4	5·9
Mexico	5·0	4·3	5·0
Others	69·0	70·0	69·0
For Industrial use (*a*)	349·6	364·4	357·6
For coinage (*b*)	89·3	55·7	40·3
Total (*a* + *b*)	438·9	420·1	397·9

It is estimated that about 25 million ounces are absorbed by speculative interests which does not figure in the table above.

NATIONAL INCOME

INDIA'S real national income rose by 5·3 per cent in 1969–70 over the previous year against an increase of 2·8 per cent in 1968–69 over 1967–68. The net output from agriculture in 1969–70 registered a rise of 5·1 per cent over the preceding year. The corresponding increase in manufacturing sector (including large and small-scale manufacturing) was only 4·9 per cent. **Per capita income** at Rs. 339·4 increased by 2·9 per cent as against a very small rise of 0·2 per cent (at Rs. 329·9) in 1968–69. The per capita income at current prices also showed a rise in 1969–70 at Rs. 589·5 (Rs. 554·7 in 1968-69).

During the period 1960–61 and 1969–70, **India's real national product** rose from Rs. 132,940 million to Rs. 179,550 million. Except for a sharp fall in 1965–66, there was a general increase in the net national product, the annual rise ranging from just 1·5 per cent in 1966–67 to 5·3 per cent in 1969–70 (*vide* Table I).

Growth Rate: The average annual rate of real national income between 1960–61 and 1969–70 was of the order of 3·5 per cent. As against this, the Third Plan visualised a higher growth rate of 6 per cent per annum, which was scaled down to 5·5 per cent in the Fourth Plan (1969–74).

The growth rate of real national income so far has thus been well below the target set in the Second and Third Plans which envisaged a doubling of per capita income in the course of 20 years. In reality, however, the **per capita income** in 1969-70 (at 1960–61 prices) is only a little higher than that in 1964–65 (335·8).

Sectoral Structure: The pace of structural transformation of the Indian economy evident during the past decade has become more pronounced during the year ended March, 1970, with the **gross domestic product** registering further rise of about Rs. 9,500 million to Rs. 193,500 million in 1969–70. In particular, agricultural sector has been steadily losing ground in favour of secondary and tertiary sectors.

This is borne out by Table II which shows that in 1960-61 primary sector accounted for as much as 51 per cent of the domestic product while secondary and tertiary sectors contributed only 20·1 and 28·9 per cent respectively. In 1969–70, however, the share of agricultural and allied activities has shrunk to 43·7 per cent while that of the secondary sector has risen to 22·9 per cent and tertiary sector to 33·4 per cent.

Another striking development has been the growing importance of the public sector in the Indian economy. In 1960–61, public sector accounted for Rs. 15,340 million, *i.e.* 10·9 per cent of the gross domestic product, which has now increased to Rs. 42,900 million in 1968–69 (14·0 per cent). Both **direct and indirect taxes** have shown a phenomenal rise between 1961 and 1969–70. The revenue from the former has more than doubled to Rs. 9,080 million in 1968–69 and that from indirect taxes to Rs. 29,680 million.

A similar striking improvement is visible in the **rate of capital formation** of public authorities. The gross fixed capital formation rose from Rs. 7,160 million in 1960–61 to Rs. 13,300 million in 1968–69. The savings of the public authorities showed a mixed trend. It reached a peak of Rs. 5,980 million in 1964–65 and thereafter declined to touch Rs. 3,630 million in 1968–69.

The annual income data (for the period 1960–61 to 1969–70) from the Central Statistical Organisation (CSO) provides excellent statistical material which helps in delineating the structure of Indian economy in terms of various sectoral activities. Seen from Table II we come to the conclusion that the agricultural and allied activities which accounted for 51 per cent in 1960–61 dropped to 43·7 per cent in 1969–70. Secondary and tertiary sectors which accounted for 20·1 and 28·9 per cent respectively in 1960–61 have increased their shares in 1969–70 to 22·9 and 33·4 per cent respectively. In other words, between 1960–61 and 1969–70, there has been a shift in the economy in favour of the manufacturing and other activities resulting in a striking change in the sectoral composition of the net domestic product.

In particular, the contribution of agricultural products to the domestic products, which was as high as 52·2 per cent at the end of the First Plan has shrunk to 41·6 per cent in 1969–70. Amongst other items, the share of manufacturing and mining has increased from 15·0 per cent in 1960–61 to 17·2 per cent in 1969–70, likewise, the share of "Transport and communication" and public administration and defence increased from 4·3 per cent and 4·0 per cent in 1960–61 to 5·2 and 6·2 per cent respectively in 1969–70.

National Accounts: The White Paper on national income published by the CSO has given a set of inter-sectoral accounts prepared in accordance with the principles of double-entry book-keeping, which, taken together, gives a complete picture of the generalisation of **National Product** and its disposal, as also the transactions in the economy with the rest of the World. In the latest edition of the CSO White Paper, we find that the domestic savings during the period 1960–61 to 1967–68 increased from Rs. 12,250 million to Rs. 24,370 million which were lower than the estimated savings of Rs. 24,770 million in 1965–66. The gross fixed capital formation rose from Rs. 20,210 million to Rs. 45,590 million during this period

Table I: NATIONAL INCOME TRENDS

Year	At current prices		At 1960–61 prices		Percentage increase over the previous year in national income (at 1960–61 prices)	
	Total (Rs. million)	Per capita (Rs.)	Total (Rs. million)	Per capita (Rs.)	Total	Per capita
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1960–61	132,940	306·3	132,940	306·3	—	—
1961–62	140,500	316·4	137,630	310·0	3·5	1·2
1962–63	148,730	327·6	140,450	309·4	2·0	—0·2
1963–64	170,940	368·4	148,450	319·9	5·7	3·4
1964–65	200,610	423·2	159,170	335·8	7·2	5·0
1965–66	206,210	426·1	150,210	310·4	—5·6	—7·6
1966–67†	239,030	482·9	152,430	307·9	1·5	—0·8
1967–68†	283,740	560·8	166,600	329·2	9·3	6·9
1968–69†	286,780	554·7	170,570	329·9	2·4	0·2
1969–70†	311,740	589·3	179,550	339·4	5·3	2·9

† Provisional.

Table II: SECTORAL COMPOSITION OF NET DOMESTIC PRODUCTS

(percentage)

Industry	1960–61	1969–70
1. *Primary*	*51·0*	*43·7*
(*a*) Agriculture	49·1	41·6
(*b*) Others	1·9	2·1
2. *Secondary*	*20·1*	*22·9*
(*a*) Manufactures & Mining	15·0	17·2
(*b*) Construction	4·6	4·6
(*c*) Others	0·5	1·1
3. *Tertiary*	*28·9*	*33·4*
(*a*) Transport & Communications	4·3	5·2
(*b*) Trade, storage, hotels etc.	9·7	10·7
(*c*) Public administration and Defence	4·0	6·2
(*d*) Others	10·9	11·3

Quick Estimates: Even though the rate of growth of the agricultural sector in 1970–71 was better than in the previous year, slower growth in the non-agricultural sector has resulted in the fall of the overall rate of **growth of national income** to 4·7 per cent at constant prices, compared with 5·3 per cent achieved in 1969–70.

The major factor that contributed to this fall was a sharp decline of 1·2 per cent in the mining and quarrying sector as against an increase of 6·2 per cent in the previous year.

Slower growth rate in the organised manufacturing sector was also responsible for the fall in the national income growth rate. The growth rate of the non-agricultural sector in 1970–71 was only 3·6 per cent which was less than that in the previous year.

On the other hand, the rate of growth of the agricultural sector in 1970–71 was slightly higher at 5·2 per cent. It was 5·1 per cent in 1969–70.

CENTRAL BUDGET (1973-74)

THE Budget for 1973-74 envisages a revenue surplus of Rs. 3,292 million and a deficit on capital account of Rs. 4,144 million, thus leaving a gap of Rs. 852 million. The additional tax proposals are expected to net in Rs. 2,926 million including States' share of Rs. 427 million. There is no increase in the basic rates of direct taxes either in personal income or corporate income.

Revenue Account: The revised estimates for 1972-73 show a surplus of Rs. 374 million under revenue account (as against a surplus of Rs. 3,404 million budgeted for the year) and a deficit of Rs. 10,086 million on capital account (as against the budgeted Rs. 5,949 million). The overall deficit for 1972-73 was of the order of Rs. 9,712 million compared with the budget estimate of Rs. 2,545 million.

The Overall Budgetary Position for Recent Years is Shown Below

(Rs. million)

Item	1960-61	1965-66	1970-71	1971-72	1972-73 (Revised)	1973-74 (Budget)
I. REVENUE ACCOUNT						
A. Receipts	8,775	23,204	33,419	40,279	46,280	50,813
B. Expenditure	8,262	20,006	31,789	41,279	45,906	47,521
C. Surplus (+) or deficit (−)	+ 513	+ 3,197	+ 1,630	− 1,000	+ 374	+ 3,292
II. CAPITAL ACCOUNT						
A. Receipts	9,680	14,944	21,215	26,041	26,514	24,602
B. Disbursements	9,024	19,869	24,942	29,234	36,600	28,746
C. Surplus (+) or Deficit (−)	+ 656	— 4,925	— 3,727	— 3,193	— 10,086	— 4,144
III. Overall Surplus (+) or Deficit (−)	+ 1,169	— 1,728	— 2,097	— 4,193	— 9,712	— 852
Financed by:						
1) Withdrawals from cash balances	— 244	+ 455	+ 744	— 1,700	— 53	— 1
2) Treasury bills	+ 1,413	— 2,183	— 2,841	— 2,493	— 9,659	— 852

Receipts: For 1973-74, the Budget envisages receipts of Rs. 50,813 million under revenue account and of Rs. 24,602 million under capital account. The disbursements under revenue accounts are at Rs. 47,521 million while those under capital account are higher by Rs. 4,144 million. The budgeted overall deficit for 1973-74 is Rs. 852 million.

Revenue Receipts Under Broad Heads are Shown Below

(Rs. million)

Item	1960-61	1965-66	1970-71	1971-72	1972-73 (Revised)	1973-74 (Budget)
I. Taxes on Income and Expenditure	1,920	4,537	4,846	5,466	6,676	7,427
II. Taxes on property and capital Transactions	135	198	269	993	1,321	1,289
III. Taxes on Commodities and Services..	5,247	13,111	19,399	22,821	26,721	30,638
A. Total Tax Revenue (I + II + III)	7,302	17,846	24,514	29,280	34,718	39,354
IV. Administrative Receipts ..	593	409	116	138	147	147
V. Interest Receipts	148	3,077	5,888	5,992	7,198	7,710
VI. Railways	48	259	264	198	186	168
VII. Posts and Telegraphs	5	11	27	24	33	33
VIII. Currency and Mint	479	465	1,006	1,301	1,469	1,546
IX. Other revenue	200	1,137	1,604	3,346	2,529	1,855
B. Total Non-tax revenue (IV + V + VI + VII + VIII + IX)	1,473	5,358	8,905	10,998	11,562	11,459
Total Revenue Receipts (A + B) ..	3,775	23,204	33,419	40,279	46,280	50,813

The aggregate revenue receipts in 1973-74 are placed at Rs. 50,813 million — a rise of Rs. 4,533 million over 1972-73. Of this tax revenue accounts for Rs. 36,850 million (76 per cent) and non-tax revenue Rs. 11,460 million (24 per cent). In absolute terms, tax revenue is expected to increase by Rs. 4,636 million. of which Rs. 751 million under taxes on income and expenditure. A deficit of Rs. 32 million is envisaged in the taxes on Commodities & Services. Among the items under non-tax revenue, interest receipts are expected to be higher by Rs. 512 million in 1973-74, and currency and mint by Rs. 168 million.

The total revenue expenditure in 1973-74 is put at Rs. 47,521 million — a rise of Rs. 1,815 million over 1972-73.

Revenue Expenditure of Government of India

(Rs. million)

Item	1960-61	1965-66	1970-71	1971-72	1972-73 (Revised)	1973-74 (Budget)
I. Collection of Taxes, Duties, etc.	224	301	481	523	580	635
II. Civil Administration	587	954	2,018	2,571	2,739	2,794
III. Defence (Net)	2,475	7,622	10,515	13,468	14,041	14,048
IV. Debt Services	771	3,706	6,055	6,701	7,686	8,348
V. Social and Developmental Services	1,852	1,797	3,067	4,779	5,641	5,965
VI. Grants-in-aid to States and Union Territories	484	3,241	6,121	9,061	10,048	8,972
VII. Others	1,869	2,385	3,532	4,176	5,171	6,759
Total Revenue Expenditure ..	8,262	20,006	31,789	41,279	45,906	47,521

Plan Outlay: A provision of Rs. 19,240 million is being made for 1973-74 which will be Rs. 1,370 million larger than 1972-73 budget provision. Another Rs. 5,180 million would be available from internal resources of the public sector enterprises and contributions from financial institutions, thereby raising resources for the total Central Plan to Rs. 24,420 million.

Central assistance to State plans would be of the order of Rs. 8,100 million, an increase of Rs. 350 million over the current years provision. Taking the Central Plan with its internal resources as well as the State and Union Territories Plans, the total outlay in 1973-74 will be Rs. 43,500 million as against Rs. 40,110 million in 1972-73.

Defence: Defence expenditure in 1973-74 is retained at the same level as in 1972-73; Rs. 16,000 million which is Rs. 1,920 million more than the budget provision for 1972-73.

Capital Account: Total capital receipts placed at Rs. 24,602 million in 1973-74 are expected to be lower by Rs. 1,911 million from the 1972-73 level. Net receipts from market borrowings show a decrease of Rs 1,518 million, and external aid (excluding PL 480) estimated at Rs 3,996 million, *i.e.* Rs. 697 million more than during 1972-73. Receipts under provident funds are expected to be higher by Rs. 117 million. Net collections under small savings at Rs. 3,253 million show an improvement of only Rs. 250 million; while repayment of loans by States, Union Territories and others, placed at Rs. 11,450 million, are lower by Rs. 1,100 million.

Capital Receipts

(Rs. million)

Items	1960-61	1965-66	1970-71	1971-72	1972-73 (Revised)	1973-74 (Budget)
1. Market borrowings (Net)	715	1,289	2,980	4,939	4,782	3,264
2. External aid (Other than PL 480 Net)	1,920	4,019	3,321	3,466	3,299	3,996
3. PL-480	2,954	2,131	822	— 216	— 208	372
4. Small Savings (Net)	1,038	1,512	1,843	2,240	3,004	3,253
5. Provident Funds	432	548	926	1,061	1,033	1,150
6. Repayment of loans & advances ..	1,260	3,735	9,226	12,968	12,550	11,450
7. Other receipts (Net)	1,361	1,710	2,097	1,583	2,053	1,117
Total Capital Receipts	9,680	14,944	21,215	26,041	26,513	24,602

Capital Disbursements : Budget for 1973-74 provides for civil expenditure of Rs. 5,230 million as against Rs. 4,940 million in the revised budget for 1972-73. The P & T capital outlay met from the Central Budget will be Rs. 370 million less because of larger internal resources. The provision for loans and advances to States and Union territories is Rs. 13,420 million i.e. Rs. 6,000 million less than 1972-73 mainly due to the fact that revised estimates include Rs. 4,210 million on account of assistance for clearance of State's overdrafts. The special accommodation including assistance for specified projects is Rs. 1,980 million (against Rs. 2,830 million in the 1972-73 revised), loans for relief towards natural calamities Rs. 600 million (Rs. 1,400 million in 1972-73 revised) and short term loans for purchase of fertilizers Rs. 600 million (Rs. 1,000 million in the revised). Loans to Foreign Governments public enterprises, port trusts, municipalities etc. are placed at Rs. 6,310 million as against Rs. 7,820 million in 1972-73 revised.

Details of Capital Disbursements

(Rs. million)

Items	1960-61	1965-66	1970-71	1971-72	1972-73 (Revised)	1973-74 (Budget)
1. Social & developmental outlay ..	2,713	3,766	6,509	6,546	4,938	5,233
2. Posts & Telegraphs	113	314	70	228	484	110
3. Railway capital outlay	895	2,451	1,359	1,908	1,978	1,720
4. Defence capital outlay	334	1,226	1,478	1,785	1,956	1,952
5. Loans and advances :						
(*a*) States & Union Territories ..	3,386	3,401	10,275	12,086	19,418	13,420
(*b*) Other loans & advances ..	1,583	3,711	5,251	5,981	7,826	6,311
TOTAL	9,024	19,869	24,942	29,234	36,600	28,746

Debt Position : The outstanding *Public Debt* of the Govt. of India is expected to amount Rs. 180,020 million as against Rs. 169,413 million in 1972-73. The *total liability* under different heads amounts to Rs. 248,261 million in 1973-74 against Rs. 231,190 million in 1972-73.

Details for 1973-74 are as follows (in Rs. million):- Public Debt : 180,020 ; Small Savings Schemes : 30,556 ; State Provident Funds : 11,653 ; Public Provident Fund : 148 ; P.L. 480 Deposits : 6,610 ; Deposits under Compulsory Deposit Schemes : 35 ; Income-tax Annuity Certificates : 717 ; Reserve Funds and Deposits : 17,660 ; Other items : 960 ; Total liabilities : 248,261.

Tax Incidence

The following table shows the comparative incidence of tax at selected levels of total income at the rates proposed in the 1973-74 budget in the case of an individual where (1) he has no agricultural income, (2) he has net agricultural income amounting to Rs. 5,000, (3) he has net agricultural income amounting to Rs. 10,000 and (4) he has net agricultural income amounting to Rs. 20,000.

Total income (i.e. income chargeable to tax under the Income-tax Act)	Tax payable in cases where the individual has no agricultural income	Tax payable in cases where the individual has net agricultural income amounting to Rs. 5,000	Tax payable in cases where the individual has net agricultural income amounting to Rs. 10,000	Tax payable in cases where the individual has net agricultural income amounting to Rs. 20,000
1	2	3	4	5
Rs.	Rs.	Rs.	Rs.	Rs.
5,000	Nil	Nil	Nil	Nil
6,000	110	187	332	460
7,500	275	468	729	1,150
10,000	550	935	1,390	2,300
12,500	1,018	1,664	2,253	3,738
15,000	1,485	2,325	3,115	5,175
20,000	2,875	4,050	5,416	8,050
25,000	4,600	6,350	8,290	11,500
30,000	6,900	9,225	11,165	14,950
40,000	12,650	15,500	18,065	21,850
50,000	19,550	22,450	24,965	29,900
60,000	26,450	29,925	33,015	37,950
70,000	34,500	37,975	41,065	46,575
80,000	42,550	46,313	49,690	55,200
90,000	51,175	54,938	58,315	64,400
100,000	59,800	63,850	67,515	73,600
150,000	105,800	109,850	113,515	119,600
200,000	151,800	156,138	160,090	166,750
250,000	200,675	205,013	208,965	215,625
300,000	249,550	253,888	257,840	264,500
500,000	445,050	449,387	453,340	460,000
1,000,000	933,800	938,138	924,090	948,750

FOURTH FIVE YEAR PLAN*

(1969-74)

PLAN IN OUTLINE

THE National Development Council gave its formal approval to the revised draft of the Fourth Five Year Plan on March 22, 1970. The total outlay of the Fourth Plan (1969-74) is Rs. 248,820 million, of which Rs. 159,020 million is for the public sector and Rs. 89,800 million for the private sector. The share of domestic budgetry resources in total resource mobilisation for the

Distribution of Public Sector Outlays: Centre, Centrally Sponsored, States and Union Territories

(Rs. million)

Head of Development	Centre	Centrally Sponsored	States	Union Territories	Total
1	2	3	4	5	6
Agriculture and Allied Sectors	11,042·6	1,268·3	14,255·1	715·8	27,281·8
Irrigation and Flood Control	235·0	—	10,503·9	126·8	10,865·7
Power	4,247·2	220·0	19,190·7	817·8	24,475·7
Village and Small Industries	1,486·5	51·0	1,289·7	104·1	2,931·3
Industry and Minerals	31,508·6	—	1,830·6	37·9	33,377·1
Transport and Communications	26,220·0	420·0	4,825·4	907·2	32,372·6
Education	2,410·0	300·0	4,998·9	517·7	8,226·6
Scientific Research	1,402·6	—	—	—	1,402·6
Health	535·0	1,765·0	1,857·5	192·8	4,350·3
Family Planning	—	3,150·0	—	—	3,150·0
Water Supply and Sanitation	38·0	20·0	3,566·6	433·3	4,057·9
Housing and Urban and Regional Development	486·0	—	1,671·0	213·3	2,370·3
Welfare of Backward Classes	05·0	595·0	774·3	49·5	1,423·8
Social Welfare	274·3	20·0	105·4	14·1	413·8
Labour Welfare and Craftsmen Training	100·0	—	270·2	28·8	—
Other Programmes	906·8	—	925·4	90·9	1,923·1
TOTAL	80,897·6	7,809·3	66,064·7	4,250·0	159,021·6

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* *Source* : Fourth Five Year Plan — 1969-74 — by the Planning Commission, Govt. of India, March 1970.

Public Sector plan has been raised to about 78 per cent as compared to 59 per cent in the Third Plan and 54 per cent in the three annual plans.

Financing the Plan : In the Public Sector Rs. 136,550 million have been provided for investment and Rs. 22,470 million for current outlay.

The total resources in the country are expected to amount to Rs. 248,820 million, of which Rs. 159,020 million would be utilised for Public Sector and Rs. 89,800 million to finance private investment.

OUTLAY FOR STATE PLANS

The outlays for the States' Fourth Plans, approved by the National Development Council are (Rs. million): Andhra Pradesh 4,205·0; Assam 2,617·5; Bihar 5,312·8; Gujarat 4,550·0; Haryana 2,250·0; Jammu & Kashmir 1,584·0; Kerala 2,584·0; Madhya Pradesh 3,830·0; Maharashtra 8,981·2; Mysore 3,500·0; Nagaland 400·0; Orissa 2,226·0; Punjab 2,935·6; Rajasthan 3,020·0; Tamil Nadu 5,193·6; Uttar Pradesh 9,650·0; West Bengal 3,225·0; Himachal Pradesh 1,014·0; Manipur 302·5; Tripura 346·6.

For the Union Territories, the outlays are (Rs. million): Andaman & Nicobar Islands 140·0; Chandigarh 77·5; Dadra & Nagar Haveli 23·0; Delhi 1,626·5; Goa, Daman and Diu 395·0; Laccadive, Minicoy & Amindivi Islands 20·0; Arunachal Pradesh 179·9; Pondicherry 125·0.

Public Sector Outlay in the Fourth Plan (1969-74) and the Third Plan (1961-66)

(Rs. in million)

No.	Head of Development	III Plan	IV Plan
1.	Agriculture and Allied Sectors	10,889	27,282
2.	Irrigation, Flood Control etc.	6,647	10,866
3.	Power	12,523	24,476
4.	Village & Small Industries	2,360	2,931
5.	Industry & Minerals ..	17,263	33,377
6.	Transport & Communications	21,117	32,373
7.	Social Services	13,549	25,794
8.	Other Programmes ..	1,382	1,923
	Total ..	85,730	159,022

Macro-Economic Projections 1968-69 and 1973-74

No. Item	Unit	1968–69	1973-74
1. National Income	Rs. million at 1968–69 Prices	288,000	379,000
2. Population (mid-year October, 1)	Million	527	596
3. Per Capita Income	Rupees	546	636
4. Domestic savings as percentage of National Income	per cent	9	13·2
5. Net investment as percentage of National Income	per cent	11·3	14·5

Resources for Private Investment : On a rough calculation the private sector is expected to generate savings amounting to Rs. 141,600 million during the Fourth Plan. Of this the household and co-operative sectors will contribute Rs. 122,100 million and the corporate sector Rs. 19,500 million.

The Central and State governments will draw on this pool of private savings to the extent of Rs. 52,100 million for the public sector plans. Thus private savings available for private investment would amount to Rs. 89,500 million. With the net amount of foreign funds flowing directly to private sector the aggregate amount would be Rs. 89,800 million.

Overall and Sectoral Rates of Growth — Fourth Plan Estimates

(Net value added in Rs. million at 1968-69 prices)

Sectors	Fourth Plan Estimates		
	1968-69	1973-74	Implied rate of growth (%)
	(1)	(2)	(3)
1. Agriculture	148,640	189,510	5·0
(1) agriculture ..	142,500	182,120	5·0
(2) forestry and logging	4,490	5,390	3·7
(3) fishing	1,650	2,000	3·9
2. Mining and Manufacturing	41,180	59,660	7·7
(1) mining and quarrying	3,170	4,650	8·0
(2) large scale manufacture	22,420	34,900	9·3
(3) small scale manufacture	15,590	20,110	5·2
3. Electricity, gas & water supply	2,370	3,700	9·3
4. Construction	11,420	17,220	8·6
5. Transport and Communications	13,090	17,850	6·4
(1) railways	4,690	5,950	4·9
(2) communications ..	1,810	2,650	7·9
(3) others	6,590	9,250	7·0
6. Real estate & ownership of dwellings ..	6,750	7,970	3·4
7. Trade, storage and hostels etc.	31,050	43,570	7·0
8. Public administration & defence	13,080	14,440	2·0
9. Banking, insurance & other services	23,130	29,140	4·7
(1) banking & insurance	4,400	5,540	4·7
(2) other services ..	18,730	23,600	4·7
10. Net domestic product at factor cost	290,710	383,060	5·7
11. Net factor income from abroad	(—)2,700	(—)4,080	—
12. Net national product at factor cost†	288,010	378,980	5·6

† Net national product at factor cost is equal to national income. (Source: The Fourth Plan Mid-Term Appraisal).

Annual Plan 1973-74.

In the last year of the Fourth Plan the Government hopes to spend Rs. 43,642·40 million.

Distribution of Outlay : The major heads of distribution are as follows: Agriculture and Allied Programmes: Rs. 7,755·80 million; Irrigation and Flood Control: Rs. 2,941·90 million; Power: Rs. 6,873·90 million; Village and Small Industries: Rs. 5,981·20 million; Industry and Minerals: Rs. 7,515·70 million; Transport

Selected Physical Targets and Achievements

S. No.	Items	Unit	Fourth Plan target	Progress		1971-72 target/ anticipated achievements†	1973-74 (likely achievement)
				1969-70 (actual)	1970-71		
1	2	3	4	5	6	7	8
	Agriculture & Allied Programmes						
1.	Foodgrains	Mill. tonnes	129·00	99·50	107·82	112·0	122 to 125
2.	Oilseeds	,,	10·50	7·73	9·12	9·50	9·50 to 10·00
3.	Sugarcane (Gur) ..	,,	15·00	13·78	13·19	13·70	13·50 to 14·00
4.	Cotton	Mill. bales	8·00	5·23	5·56	6·20	6·20 to 6·60
5.	Jute	,,	7·40	5·65	4·91	6·40	6·00 to 6·20
6.	High-yielding varieties programme	Mill. hectares	25·00	11·41	14·61	18·00	25·00
7.	Multiple cropping (additional)	,,	9·00	1·52	1·59	1·90	9·00
8.	Minor Irrigation (additional)	,,	7·20	1·21	1·47	1·58	7·20
9.	Soil conservation (additional	,,	5·65	1·05	1·25	1·25	5·65
10.	Consumption of Fertilizers Nitrogenous (in terms of N)	Mill. tonnes	3·20	1·36	1·49	1·78*	2·60
11.	Phosphatic (in terms of P_2O_5)	,,	1·40	0·42	0·46	0·64*	0·81
12.	Pottasic (in terms of K_2O)	,,	0·90	0·21	0·23	0·34*	0·52
13.	Plant protection ..	,,	80·00	34·61	43·20	50·76	80·00
14.	Short & Medium Term loans advanced ..	Rs. million	7,500·0	5,385·0	6,010·6	6,500·0†	7,500·0
	Irrigation : Major & Medium						
15.	Potential (Gross) (Cumulative)	Mill. hectares	23·3	19·15	19·75	20·39	22·9
16.	Utilisation (Gross) (Cumulative)	,,	20·9	17·14	17·68	18·36	N.A.
17.	Installed capacity ..	Mill. Kw.	23·2	15·441	16·49	17·67	21·15
18.	Pumpsets energised ..	'000 Nos.	2,337	1,354	1,629	1,959	2,337
	Industry & Minerals						
19.	Steel Ingots	Mill. tonnes	10·8	6·43	6·1	6·75*	8·25
20.	Finished Steel ..	,,	8·1	4·8	4·47	5·6*	6·7
21.	Alloy & Special Steel	,,	220·0	140·4	200·0	200·0*	247·0
22.	Aluminium	'000 tonnes	220	135·0	168·7	179·8*	210·0
23.	Copper	,,	31·0	9·8	9·33	9·5*	26·0
24.	Zinc	,,	70·0	23·7	23·4	30·8*	38·0
25.	Metallurgical and other Heavy Engg. Machinery	,,	75·0	18·0	20·0	25·0*	40·0
26.	Agricultural Tractors	'000 Nos.	50·0	17·1	20·0	35·0*	50·0
27.	Turbines (Thermal) ..	Mill. Kw.	1·30	0·32	—	—	—
28.	Turbines (Hydro) ..	,,	1·65	—	—	—	—
29.	Production of Nitrogenous Fertilizers (in terms of N)	'000 tonnes	2,500	715	930·0	1,130·0*	1,800
30.	Production of Phosphatic Fertilisers (in terms of P_2O_5)	'000 tonnes	900	221·5	229·0	300·0*	458·0
31.	Sulphuric Acid ..	,,	25·0	1,120	1,116	1,350*	1,750
32.	Coking Coal	Mill. tonnes	25·4	17·0	18·8	19·0*	21·0
33.	Iron Ore	,,	51·4	28·0	28·0	30·0*	40·0
34.	Production of crude petroleum	,,	8·5	6·7	7·0	7·5*	8·5
35.	Refining capacity (in terms of throughput) ..	,,	26·0	16·2	18·0	19·0*	21·0

Selected Physical Targets and Achievements — (*Contd.*)

S. No.	Items	Unit	Fourth Plan target	Progress 1969-70 (actual)	Progress 1970-71	1971-72 target/ anticipated achievements†	1973-74 (likely achievement)
1	2	3	4	5	6	7	8
36.	Machine Tools (Organised Sector)	Rs. million	650·0	272·0	230·0	420·0*	600·0
37.	Ball and Roller bearings	Mill. Nos.	20·0	14·0	18·2	18·0*	21·0
38.	Power Driven Pumps (Organised Sector) ..	'000 Nos.	450·0	333·0	280·0	400	450
39.	Diesel Engines (Stationery and organised sector)	,,	200·0	133·4	67·4	70·0*	80·0
40.	Commercial Vehicles	,,	85·0	35·5	41·5	45·0*	60·0
41.	Electric transformers above 33 KV	Mill. KV.	6·4	2·5	3·0	4·0*	6·4
42.	Electric Transformers 38 KV and below ..	,,	5·5	3·8	6·5	7·0*	5·5
43.	Electric Motors above 200 HP	Mill. HP	0·6	0·20	0·30	0·4*	0·68
44.	Electric Motors 200 HP and below	,,	2·72	2·42	3·00	3·5	3·82
45.	Paper and Paper Board	'000 tonnes	850	724	756	800*	850
46.	Cement	Mill. tonnes	18·0	13·81	14·36	15·5*	18·0
47.	Cotton Cloth (Mill. sector)	Mill. metres	5,100·0	4,192	4,200	4,300*	4,500
48.	Jute Textiles	'000 tonnes	1,400·0	944·0	1,050·0	1,100·0*	1,400
49.	Sugar	,,	4,700·0	4,260·0	3,765	3,400*	4,700
	Village & Small Industries						
50.	Production of handloom, Powerloom & Khadi Cloth	Mill. metres	4,250	3,600·0	3,760	3,810*	3,900
51.	Raw Silk	Mill. Kgs.	3·0	2·30	2·85	3·00*	3·20
	Transport and Communications						
52.	Railways: Traffic Originating	Mill. tonnes	265·0	207·9	199·0	208·0*	240·0
53.	Major Ports: Traffic handled	,,	77·0	54·6	56·0	61·0*	76·7
54.	Shipping Tonnes ..	Mill. GRT	3·5	2·3	2·4	2·5*	2·83
	Education						
55.	Addl. enrolment in Classes I-V	Million	13·80	2·22	2·77	2·64	2·70 (13·08)
56.	Addl. enrolment in Classes VI-VIII ..	Million	5·46	0·79	0·84	0·97	1·05 (4·65)
57.	Addl. enrolment in Classes IX-XI ..	,,	3·27	0·45	0·68	0·69	0·75 (3·27)
58.	University education (Arts, Science & Commerce Courses) ..	,,	1·08	0·17	0·22	0·17	0·22 (0·92)
	Health						
59.	Hospital beds ..	'000 Nos.	281·6	262·4	266·0	270·0	—
60.	Family Planning :						
	Sterilisation	Mill. Nos.	—	1·42	1·28	—	—
	IUCD Insertions	,,	—	0·46	0·46	—	—

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† Target of States & Union Territories for 1971-72 amounts to Rs. 6,776·6 million. (Source : The Fourth Plan Mid-term Appraisal.)

* Anticipated achievement.

‡ Cumulative total.

and Communications : Rs. 6,997·00 million ; Education : Rs. 2,165·10 million ; Scientific Research : Rs. 330·70 million ; Health : Rs. 912·70 million ; Family Planning : Rs. 548·50 million ; Water Supply and Sanitation : Rs. 1,272·20 million ; Housing and Urban Development : Rs. 629·80 million ; Backward Classes Welfare : Rs. 409·90 million; Social Welfare : Rs. 266·90 million ; Labour and Labour Welfare: Rs. 140·50 million; Social Welfare Continuing Schemes : 1,250·00 million ; Others : Rs. 558·60 million ; Crash Schemes for Educated Unemployed : Rs. 1,000·00 million ; Advance action for Fifth Plan : Rs. 1,500·00 million.

Sharing of Outlay : Centre : Rs. 22,944·00 million ; Centrally Sponsored schemes : Rs. 1,474·00 million ; Union Territories : Rs. 864·10 million ; States : Rs. 18,560·00 million.

Physical Targets : Foodgrains 115 million tonnes ; Oil seeds : 9·50 million tonnes ; Sugar-cane (in terms of gur) 13·50 million tonnes ; Cotton 6·50 million bales ; Jute : 5·60 million bales.

Minor irrigation 7·2 million hectares ; power generation from 17·53 million Kw. in 1972-73 to 19·46 million Kw. (Plan target 23 million Kw.) ; Energising 300,000 pumpsets bringing total to 2·4 million pumpsets ; Electrification of 13,000 villages bringing total to 148,000.

Of the Outlay of Rs. 7,511·70 million for industry and minerals 60 per cent will be used for accelerating programmes of basic industries like steel, fertilisers, petroleum, mineral development and non-ferrous metals.

CIVIL AVIATION

INTRODUCTION

CIVIL Aviation in India is regulated and administered in the Ministry of Tourism and Civil Aviation, Government of India. Dr. Karan Singh is at present holding this portfolio in the rank of Cabinet Minister. The present Secretary to the Ministry is Sri N. Sehgal. The administrative Head of the Department of Civil Aviation is the Director General of Civil Aviation, who is responsible for various regulatory functions including the provision of the necessary infra structure for Civil Air transport operations — this office is currently held by Shri S. Ramamritham.

The necessary legal framework is provided by the Indian Air Craft Act 1934, the Indian Carriage by Air Act 1934, the rules framed thereunder and the Air Corporations Act, 1953, as amended from time to time. India was re-elected as a member of the Council of ICAO for a period of three years at the 18th Session of the General Assembly of the organisation held in Vienna in June/July 1971. India's two Public sector airlines Air India and Indian Airlines are also members of IATA.

The total public sector outlay for Civil Aviation Department for the Fourth Plan (1969–74) is Rs. 700·015 million.

International Airports Authority India : Based at Delhi, IAAI was created as a statutory Corporation under legislation enacted by the Parliament with effect from 1st February 1972. The management of the four international airports was vested in the authority with effect from 1 April 1972 ; each international airport has been placed under the charge of a Director.

Members of the Authority : B. Israni, (*Chairman*) ; S. Ramnathan, (*Chief Executive*) ; Managing Director, Air India ; Managing Director, Indian Airlines ; Director-General of Civil Aviation, Ex Officio ; Director-General of Tourism ; Joint Secretary, Ministry of Finance, Ex Officio ; S. Madhusudan, Labour Representative.

Directors of International Airports : Bombay, Shri A. V. Limaye ; Calcutta, Shri B. B. Roy ; Madras, Shri K. S. Rajagopalan ; Delhi, Shri V. N. Kapur.

AIRPORTS

At the end of December 1971, 85 airports were maintained by the Civil Aviation Department. By categories these are :—

International Airports (4) : Bombay, Calcutta, Delhi and Madras.

Major Airports (11) : Agartala, Ahmedabad, Amritsar, Begumpet, Delhi (Safdargunj), Gauhati, Jaipur, Lucknow, Nagpur, Patna, Tiruchirapalli.

Intermediate Airports (38) : Aurangabad, Balurghat, Vadodara, Behala, Belgaum, Bhavnagar, Bhuntar, (Kulu), Bhopal, Bhubaneshwar, Bhuj, Bombay (Juhu), Coimbatore, Gaya, Indore, Junagadh (Keshod), Kailashahar, Kamalpur, Kandla, Khajuraho, Khowai, Kota, Kumbhirgram, Madurai, Mangalore (Bajpe), Mohanbari, Nagargul (Nadirgul) (Gliderdrome, Hyderabad), North Lakhimpur (Lilabari), Pantnagar (Phoolbagh), Porbandar, Port Blair, Rajkot, Ranchi, Trivandrum, Tulihal (Imphal), Udaipur, Varanasi (Banaras), Vijayawada, Visakhapatnam.

Minor Airports (32) : Akola, Bilaspur, Chakulia, Cooch-Behar, Cuddappah, Donakonda, Hadapsar (Gliderdrome, Pune), Jhansi, Jharsuguda, Jabalpur, Kanpur (Civil), Khandwa, Kolhapur, Lalitpur, Malda, Muzaffarpur, Mysore, Palanpur (Dessa), Panagarh, Panna, Pasighat, Raipur, Rajahmundry, Ramnad, Raxaul, Rupsi, Satna, Shella, Sholapur, Tanjore, Vellore, Warangal.

Extensive development works at the international airports are in progress. A new terminal building is proposed for Bombay Airport, Santa Cruz, in the fifth 5-year Plan. Two new domestic airports at Tirupathi and Shillong (Barapani) had been constructed and land for the third airport at Calicut had been acquired in the year 1971. Plans were also drawn up for category II of approach lighting, central line lighting, touchdown zone lighting, and threshold lighting at Bombay, Delhi and Calcutta airports to handle Jumbo Jets introduced in the same year.

TRAINING CENTRES

The Civil Aviation Training Centre, Allahabad, comprising of an Aerodrome School and Communications School is the principal training centre in the country, where basic training and refresher courses are conducted for departmental officers. As on 31st December 1971, 21 trainees were undergoing training in various courses.

Facilities exist for training of Glider instructors and Winch operators at the Government Glider Centre, Pune. Facilities are available at the Fire Services Training Centre, Calcutta, for training of departmental candidates for courses in crash and fire rescue. Facilities for training foreign nationals are also available at Allahabad and other centres under various aid schemes. 10 Nepalese and 8 Afghan nationals were provided training in 1971 in different courses and at the end of the year, 7 Afghan nationals were still under training.

FLYING CLUBS

At present there are 25 subsidised flying clubs in India with their headquarters at Amritsar, Hyderabad, Gauhati, Banasthali, Patna, Bombay, Coimbatore, New Delhi, Bangalore, Vadodara, Lucknow, Hissar, Jamshedpur, Karnal, Trivandrum, Indore, Nagpur, Madras, Jullundur Cantt., Bhubaneshwar, Patiala, Jaipur, Behala (Calcutta), Raipur and Ludhiana.

During the period 1 January to 30 November 1971, the flying clubs logged a total of 38,000 instructional hours. An expenditure of Rs. 26,06,928 was incurred on payment of subsidy and subvention to the flying clubs during the period.

Gliding Clubs : Besides the Government Centre at Pune, there are 13 subsidised gliding clubs/wings at Agra, Ahmedabad, Amritsar, New Delhi, Deolali, Hissar, Jaipur, Jullundur, Kanpur, Pilani, Raipur, Patiala and Patna. Out of these, the Eastern Madhya Pradesh Flying and Gliding Club has not been included in the subsidy scheme for 1971–72.

Duringt the period from 1 January to 30th November 1971, the Government Gliding Centre at Pune and the Gliding Clubs carried out a total of 39,500 launches. Rs. 4,61,535 were given as subsidies and subvention to the gliding clubs/wings of the flying clubs, during the period 1 January to 31, December 1971.

Aeronautical Communication Services : The Aeronautical Communication Service continues to play its important role in meeting the fast changing demands of Civil Aviation.

On 31st December 1971, the Aeronautical Communication Service was operating and maintaining 91 Aeronautical Communication Stations, providing 258 Aero Mobile Channels in the Aeronautical Mobile Service, 239 radio circuits in the Aeronautical Fixed Telecommunications Network and 178 Radio Navigation facilities.

AIRCRAFT

At the end of December 1971, 690 aircraft held current certificates of registration and 260 aircraft held current certificates of airworthiness. Of these, 143 aircraft belonged to scheduled and non-scheduled commercial operators. During the period from 1, January 1971 to 31 December 1971, 35 new aircraft were registered and the registration of 9 aircraft was cancelled. In all, 315 aircraft were inspected for the issues/renewal of certificates of airworthiness during the period.

The number of gliders registered at the end of December 1971 was 102, of which 25 held current certificates of airworthiness.

On 31, December 1971, 85 aircraft were engaged in aerial work and agricultural operations.

RESEARCH AND DEVELOPMENT

Research and Development is undertaken by the Research and Development Organisation of the Civil Aviation department at the Technical Training Centre, Safdargunj, New Delhi. During 1971, the following programmes were undertaken :

(1) Improvements on second prototype of REVATHI MK-II — a trainer cum personal (2/3 seater) aircraft.

(2) Eighth prototype of KARTIK KS-II Glider was completed.

(3) Completed flight testing of MRIGASHEER HS-I Sailplane — 1st prototype's design work on HS-II nearly complete.

(4) Research project on fatigue life of aircraft components.

(5) Study of operational problems of a number of agricultural aircraft.

(6) Early studies in measurement of noise levels around Delhi airport initiated.

(7) Development tests were carried out on a number of indigenous materials used for aircraft manufacture.

(8) Development of four prototypes of ARJUN IV Glider launching vehicles, out of indigenous material.

ACCIDENTS

During the period 1 January to 31 December, 1971, there were 32 notifiable accidents in India involving 31 Indian and 1 foreign aircraft. Five of the accidents to Indian registered aircraft involved the death of 9 crew members and 32 passengers.

Of the 31 Indian registered aircraft involved in accidents five were engaged in scheduled passenger services, three in non-scheduled passenger services, ten in training flights/joy rides, nine on cropspraying operations, one in a training flight by Air India, one in emergency relief operations, and two in private flights. The only foreign aircraft involved in an accident was on an aid mission.

Fourteen out of 31 accidents to Indian registered aircraft have been investigated ; 15 are under investigation by the Civil Aviation Department and two by a Court of Inquiry appointed by the Central Government. The accident to a foreign registered aircraft is being investigated by the Civil Aviation Department.

Brief particulars of the aircraft involved in 5 fatal accidents :—

Pushpak aircraft VT-DZJ belonging to the Patiala Aviation Club.

DC-3 aircraft VT-ATT, belonging to Jamair Co. Private Ltd.

Saab Safir VT-CZS owned and operated by Hon. Secretary, Northern India Flying Club, Jullundur.

Avro HS-748 aircraft, VT-DXG, belonging to Indian Airlines.

Bell 47-G-5 Helicopter, VT-DZS, belonging to Agricultural Aviation (P) Ltd., Bombay.

NON-SCHEDULED AIR TRANSPORT

As on 31 December, 1971, there were 11 non-scheduled air transport operators who held permits for the operation of purely non-scheduled air services. These are :—

(1) Airways (India) Ltd. ; (2) Air Survey Company of India (P) Ltd. ; (3) Bharat Commerce and Industries Ltd. ; (4) Cambata Aviation (P) Ltd. ; (5) Jamair Company (P) Ltd. ; (6) J K Chemicals Ltd. ; (7) Kalinga Airlines (P) Ltd. ; (8) Kasturi & Sons ; (9) Helicopters Services (P) Ltd. ; (10) Mahindra and Mahindra ; (11) Pushpaka Aviation (P) Ltd.

In addition, the following two airlines hold permits for the operation of joy rides only :—

(1) Daver Aviation and (2) Aero Advertisers.

During the year 1971, approximately 10,898 hours and 3,298,420 Kms. were flown on non-scheduled operations, against the previous year's figures of 14,356 hours and 3,082,137 Kms. The number of passengers and the amount of freight carried over were approx. 88,127 and 5,497 tonnes respectively, as against the previous year's figures of 137,635 and 9,197 tonnes of freight.

SCHEDULED AIR TRANSPORT

Air India as the national flag carrier and Indian Airlines as the main domestic carrier are the two scheduled airlines. Both these companies came into being when air transport

	AI		IA	
Pax Traffic	**1971**	**1970**	**1971**	**1970**
Passengers carried	391,707	427,396	2,133,868	2,201,407
Passenger Kilometres (x000)	1,780,748	1,720,514	1,614,168	1,605,446
Available Seat Kms (x000)	3,867,048	3,451,190	2,371,622	2,111,391
Load Factor	46·0	49·9	68·1	76·6
Productivity				
No. of employees	10,278	9,696	14,759	13,547
Ton Kms (x000)	268,018	278,201	163,223	168,258
Average Ton Kms per Employee	26,077	28,692	11,059	12,420
Freight and Mail Traffic				
Freight Ton Km (x000)	95,721	83,644	13,065	12,770
Mail Ton Km (x000)	7,710	9,035	9,876	9,877
Fleet Utilisation				
No. of aircraft	11	10	54	63
Total Revenue Hours (Scheduled & Non-Scheduled)	38,042	38,925	95,117	113,367
Average Hours per aircraft	3,458	3,892	1,761	1,799
Route Network				
Scheduled Route Network (Kms)	136,435	—	35,279	—

(IATA Statistics)

was nationalised under an Act of Parliament — Air Corporation Act, 1953. The table above provides a brief overview of the operations of these two airlines for the year 1971, compared with 1970.

AIR INDIA

Head Office : Air India Building, 218 Backbay Reclamation, Nariman Point, Bombay 400020. Tele : 292728.

Air India has 35 online stations and 93 offline offices and sales representation covering 5 continents.

AI at present operates a daily 747 service to New York via London. London is also served with two additional terminator services, via Middle East and Europe. In addition, AI operates four Gulf Terminator services, and two Moscow terminators. Besides there are four services a week to Tokyo, two to Osaka, three to Nairobi, one of which is extended to Entebbe, and three to Singapore, one of which is extended to Jakarta. Of the remaining two services to Singapore, one is operated to Nandi via Perth and Sydney. In addition, a twice weekly service is operated to Mauritius and Dacca.

Air India today has a fleet of four Boeing 707–437 intercontinental jets, three Boeing 707–337Bs, two Boeing 707–337Cs and four Boeing 747–237Bs. Three wide body jets are also planned for 1975–76.

Board of Directors : J. R. D. Tata (*Chairman*), N. P. Sen, Air-Vice Marshal M. S. Chaturvedi, K. N. Mookerjee, N. Khosla, K. G. Appusamy, Ravi J. Matthai, Air Vice Marshal S. A. Hussain, M. S. Sundara, S. K. Kooka, K. K. Unni, B. Israni, Air Chief Marshal P. C. Lal, N. M. Dastur ; J. C. Katoch.

Management : J. R. D. Tata (*Chairman*) ; K. K. Unni (*Managing Director*) ; N. H. Dastur (*Commercial Director*) ; Vacant (*Asst. Managing Director*); Capt. K. Vishvanath (*Director of Planning, Tech.*); K. G. Appusamy (*Director of Engg.*); Capt. K. M. Mathen (*Director of Operations*); C. V. R. Rao (*Financial Controller*).

Finance : The Corporation received from the Government of India additional capital of Rs. 100 million in March 1972 ; half being "equity" and half "loan" capital. The total capital as at 31st March 1972 stood at Rs. 418·2 million, divided equally between equity and loan capital.

Operating Results 1971-72 (Rs. in million) : Operating Revenue : Rs. 785·6 ; Operating Expenses : Rs. 777·8 ; Operating Profit : Rs. 7·8 ; Net Surplus/(Deficit) Rs. (16·6).

Holding Companies : Air India set up a wholly owned charter company called "Air India Charters Ltd." on 9th September 1971. It is a non-IATA Charter Company set up with a capital of Rs. 0·5 million. It operates 3 flights a week on India–U.K. and India–Europe route, but the complexion of its operations is likely to change from 1st April 1973.

Another wholly subsidiary company called "Hotel Corporation of India Ltd." came into being on 8 July, 1971. Two "Centaur" hotel projects are planned ; work on one at Santa Cruz Airport has already started, while the second is proposed to be at Bombay, Juhu Beach.

INDIAN AIRLINES

Head Office : Airlines House, 113, Gurdwara Rakabganj Road, New Delhi 110001.

The fleet as on 31 January 1972 consisted of seven Boeing 737's, seven caravelles, six Viscounts, twelve Fokker Friendships, thirteen HS-748's and eight DC-3's. A Boeing 707 aircraft has been operating daily services between Bombay/Bangalore, Bombay/Madras and Bombay/Calcutta ; it has been chartered from Air India since 15th January 1972. The airlines services extend over the entire sub-continent, including Nepal, Burma and Ceylon. The operations of the airlines have been divided into four regions : Delhi, Bombay, Calcutta and Madras.

Board of Directors : N. P. Sen (*Chairman*) ; J. R. D. Tata, M. S. Sundara, K. N. Mookerjee, K. K. Unni, N. Khosla, Air Vice Marshal S. A. Hussain (*Mg. Director*), V. Satyamurti, B. Israni, Air Marshal O. P. Mehra, Ravi J. Matthai, Air Chief Marshal P. C. Lall, G. C. Katoch, C. J. Lisley.

Executive Heads : *Managing Director :* Air Vice Marshal S. A. Hussain ; *Asst. Managing Director :* V. Satyamurthi ; *Director of Planning :* R. S. Bahadur ; *Director of Engineering :* K. N. Kathju ; *Commercial Director :* C. J. Lisley ; *Director of Personnel :* P. J. Lalvani ; *Director of Operations :* Capt. A. M. Kapur ; *Director of Economic Planning :* L. F. R. Cabral ; *Manager, Management Advisory Services :* R. C. Jain ; *Controller of Stores and Purchases :* J. A. D'Silva ; *Secretary :* S. K. Chatterjee.

Regional Directors : Bombay : Capt. D. A. Samant ; Calcutta : G. D. Mathur ; Delhi : A. H. Mehta ; Madras : *Regional Director :* Capt. J. Joseph.

It has set up training establishments for its flying engineering and traffic personnel.

Finance : As at 31 March, 1972, the total capital of Indian Airlines stood at Rs. 427·7 m. divided equally between "Equity" and "Loan" capital. This included amounts of Rs. 20 million and Rs. 10 million received from the Government of India towards a "ways and means" advance and additional capital, respectively.

Operating Results 1971-72 (Rs. in million) : Operating Revenue : Rs. 559·1 ; Operating Expenses : Rs. 571·0 ; Operating Profit/(Loss) : Rs. (11·9) ; Net Surplus/(Deficit) : Rs. (4·55).

PORTS

THERE are eight major ports in India, 21 intermediate ports and 144 working minor ports. Mangalore and Tuticorin are being developed as major ports.

Technically a major port is one which is capable of taking in ocean-going steamers with a registered tonnage of 4,000 or more and berth them along wharves.

The eight major ports are Bombay, Calcutta, Cochin, Kandla, Madras, Mormugao, Paradeep and Visakhapatnam.

State-wise distribution of intermediate ports and the number of minor ports respectively are :

Mysore : Karwar, Mangalore & 19 minor ports. **Tamil Nadu :** Cuddalore, Nagapattinam, Tuticorin & seven minor ports. **Maharashtra :** Ratnagiri, Redi, and 47 minor ports. **Gujarat :** Okha, Porbander, Bhavnagar, Navalakhi, Bedi, Veraval, Bharuch, Mandvi, Sikka, Surat, and 40 minor ports. **Kerala :** Alleppey, Kozhikode, and nine minor ports. **Orissa :** There is one minor port. **Andhra Pradesh :** Masulipatam, Kakinada and five minor ports. **Pondicherry :** There is one minor port of Pondicherry only. **Andaman & Nicobar Islands :** There are 15 minor ports.

All the major ports are administered by Port Trusts, which are statutory bodies.

The intermediate and minor ports are administered by State Governments.

The National Harbour Board : The Board advises the Central Government on matters of general policy relating to port management and development including the effects on industry, commerce, shipping, railways etc. so as to ensure integrated consideration of all important port matters.

LIGHTHOUSES

Lighthouses are divided into general and local according to the utility of a particular lighthouse to navigation. The superintendence and management of general light houses are vested in the Union Government while local lighthouses are managed by the local lighthouse authorities such as State Governments, Port Trusts, etc.

There are 293 lighthouses, 9 lightvessels, 156 lightbuoys, 300 lighted and unlighted buoys, 233 beacons, 12 fog signals, 7 M. F. radio beacons, 2 harbour radars, 2 Decca navigator chains, 299 land marks, 716 other marks, making a total of 1,965 aids to navigation strewn over the coastline of approximately 6,950 kilometres including Andaman, Nicobar, Laccadive and Minicoy Islands.

Programme for the year 1972-73 : The programme includes the construction of lighthouses at Madras, Tuticorin, Beypore, Krishnapatnam, Gopnath, Pondicherry, Manacur, Cochin, Periyar, Cannanore, Mount Delly, Sao George, Aguada, Kiltan, Kalpeni, Suhelipar, Ross Island, Rutland Island, South Button Island, Middle Button Island, Strait Island, North Point, Pullo Mills Island, Fatchall East Bay, Luhara Point, Waasi Borsi, Umbergaon etc. and the commissioning of Fog Signal at Okha and new lighthouses and Pygmallion Point, Port Blair — North Point, Saratkal Point, Nogayalanka and a new light vessel at Perigee Rocks.

BOMBAY :

The Port of Bombay owns landed estates extending over 761 hectares from Pilot Bunder to Wadala and the docks cover an area of 283 hectares. Sassoon Dock has a water area of 1½ hectares and limited facilities for five ships of 1,000 tonnes.

Besides the docks there are a number of "Bunders" or open wharves along the harbour front with a total quayage of about 12 kilometres. These bunders handled 8·82 million tonnes during 1970-71.

Repair facilities for shipping are provided at two drydocks — Hughes and Mereweather.

MAJOR PORTS (1971-72)

Ports	Receipts (Rs.)	Expenditure (Rs.)	No. of passengers embarked	No. of passengers disembarked	Imports in tonnes	Exports in tonnes
Bombay	304,359,780	252,067,436	278,772	245,623	12,425,560	3,706,954
Calcutta	350,600,000	362,500,000	18,301	—	4,800,000	2,600,000
Cochin	—	—	2,803	3,265	3,515,763	1,177,774
Kandla	27,096,215	26,838,315	7,758	7,535	1,797,661	234,557
Madras	124,788,016	125,011,901	35,088	43,455	4,105,387	2,686,715
Mormugao ..	1,261,867	1,302,296	—	—	81,179	262,021
Visakhapatnam ..	108,793,672	77,130,371	—	—	2,780,000	5,890,000

The Port maintains its own railway system which serves the docks, ten local stations and a large number of sidings on the Port Trust estates. It also connects the main line railways.

Chairman : S. Y. Ranade ; *General Manager :* Govind H. Seth ; *Secretary :* J. J. Parakh.

CALCUTTA :

There are two docks, known as Kidderpore Docks and King George's Dock. The third and subsidiary deep water dock at Haldia meant for handling bulk carriers and bigger vessels is under construction. An oil jetty, a part of the Haldia Dock Project is already in commission. There are five dry docks — two in King George's Docks, and three in Kidderpore Docks.

There are nine jetties at the Strand Bank in Calcutta of which only five are available for ocean-going steamers. Five river-side jetties are also available at Garden Reach for sea-going vessels.

There are petroleum wharves at Budge Budge about 22·53 kms. from Calcutta.

Anchorages are available at Saugor Road, Haldia, Kalpi, Diamond Harbour, Royapur, Uluberia, Budge Budge and Garden Reach of which Royapur, Uluberia, Budge Budge and Garden Reach are available only for outward bound deep-laden vessels or in emergency. The other anchorages are used by ships on passage to and from the Port.

Kidderpore Dock No. 2 has six coal berths.

The port can handle over 14 million tonnes of traffic annually.

The chief exports from Calcutta are coal, tea, sugar, gunnies, bone and bone-meal, bunker oil, iron and steel manufactures, lac, scrap, ores and mica. The principal imports are salt, foodgrains and flour, sulphur, tinplate, machinery, petroleum, iron and steel, metals other than iron and steel, lubricating oil, cement, soda, timber, fertilisers, bricks, chemicals, oils, railway material.

About 90 ships can be given working accommodation in jetties, docks and river moorings.

Chairman : K. K. Ray ; *Dy. Chairman :* P. C. Mittra ; *Secretary :* T. R. Raghupathi.

COCHIN :

The Port of Cochin is open for deep water traffic in the worst monsoons and provides a splendid anchorage at all times of the year. Any ship drawing upto 30 ft. draft can enter the port even in the roughest weather.

The Cochin Harbour Railway is connected with the broad gauge and metre gauge systems of the Southern Railway. Inside the Harbour there are 12 stream berths, 2 coal berths, 8 wharf berths, 1 boat train pier jetty with facilities for discharging and loading bunker oil, two tanker berths and an open berth.

The principal imports are foodgrains, mineral oils (crude), cashewnuts, hardware, chemicals and manure. The principal exports are coir and coir products, tea, rubber, cashew kernels, seafoods, coconuts, spices, and mineral oil products. Fourth Plan development outlay of Rs. 180 million will be spent to provide modern facilities.

Chairman : P. S. Padmanabhan, I.A.S.

KANDLA :

The major port of Kandla has now the following main facilities :—

A cargo jetty with (*a*) 823 m. of quayage and designed depth of 9·8 m. of water alongside to accommodate four large size ships or five liberty type oceangoing vessels ; (*b*) Three single storeyed transit sheds, each 137 m. long and 43 m. wide, with a total storage capacity of about 15,000 tonnes of general cargo ; (*c*) Broad wharves served with three dual gauge (BG & MG) railway lines and roads ; (*d*) 21 electric quay cranes, the most modern type of 3 tonnes, 6 tonnes and 10 tonnes capacities ; (*e*) Spacious open stacking grounds served with railway and road sidings ; (*f*) Four double storeyed warehouses, each 152 m. long and 37 m. wide with storage capacity of 60,000 tonnes, with overbridge connections to the roofs of the transit sheds, and provided with modern cargo lifts, chutes and loading platforms ; (*g*) 'Grinnel' automatic sprinkler and fire alarm system has been provided in one warehouse as a measure for protection against fire, for the storage of cotton cargo in the warehouse ; dangerous cargo sheds of 320 tonnes capacity and a calcium carbide shed of 48 tonnes capacity ; 3 vegetable oil tanks with a total capacity of 650 tonnes ; 3 sheds for storage of 10,000 tonnes fertiliser ; (*h*) The construction of an additional 343 m. of quay, designed for a depth of 9·45 m. of water at L.W.O.S.T. has been completed except for the work of dredging alongside ; (*i*) 26 vacuator pumps to discharge bulk foodgrains cargo from the tankers ; (*j*) Night navigation ; (*k*) 60 tonne gantry crane in Bunder for heavy packages ; (*l*) Fishing jetty with 2 tonne crane with cold storage facilities.

The port is equipped with V. H. F. communication network for maintaining contact with pilot launches, survey launches and ships calling at the Port.

The port is connected to its hinterland by broad gauge rail connection *via* Jhund-Ahmedabad and metre gauge rail connection *via* Dessa-Palanpur. Also a national highway connects Kandla to Ahmedabad.

A Free Trade Zone has been established at Kandla.

The chief imports are mineral oil, vegetable oil, foodgrains, fertilisers, muriate of potash, sulphur, and machinery. Exports are salt, bone materials, tea, rice bran and engineering goods.

Chairman : Z. S. Jhala.

Secretary : Dr. R. P. Bhargava.

MADRAS :

Berthing Facilities : At present there are 18 quay berths. Of these 10 are equipped with sheds. There are four moorings of which three are oil mooring berths.

Bharathi Docks : The Rs. 240 million Madras outer harbour was commissioned on 4th February, 1973 by the Union Minister of Shipping, Mr. Raj Bahadur. The dock is designed to take 100,000 tonne tankers. The first tanker to move in was the 88,000 DWT "Jawaharlal Nehru". The dock is named after Tamil Nadu's famous poet and patriot, Subrahmanya Bharathi.

The alongside berths include special berths for handling of iron ore. These berths are equipped with necessary mechanical appliances and storage facilities. There is a separate yard for storage of iron ore intended for shipment. The yard is equipped with two transporter cranes for stock piling and for feeding the ore to the berth by means of steel trays placed on ore platform trucks. The mechanical equipment for handling iron ore has a rated capacity of loading 8,000 tonnes per day at Jawahar Docks.

Cargo Handling Equipment : Level Luffing electric cranes of various capacities have been provided at each berth in addition to an adequate number of mobile cranes, forklifts, platform trucks, tractor, trailers etc.

In addition, the Centre Berth has a static crane with hoisting capacity of 60 tonnes for handling heavy packages and machinery. The Floating Crane "VAIGAI" of

120 tonnes capacity also helps the handling of heavy packages overside. Palletisation on an extensive scale is also among other factors helping to achieve quicker turn round of vessels. Pre-slinging method in cargo handling has also been introduced.

Storage Facilities : There are 16 warehouses comprising a covered area of 76,720 sq. mts. with rail and road access available for rental at moderate rates. Bonding facilities and separate stacking area for hazardous goods are also available. In addition 200,000 sq. mts. of open area for stacking is also available. Apart from this 5 storage tanks of varying capacities 200 to 10,000 tonnes with shore to ship and vice versa pumping facilities are available to handle commodities like mutton tallow, molasses, edible oils etc. There are also three storage tanks of 10,000 tonnes capacity each for storage of phosphoric acid.

Types of cargo handled : The main imports are coal, foodgrains, mineral oils, fertilisers, phosphate, sulphur and phosphoric acid. Under general cargo, machinery, hardware, iron and steel, cotton, metals and timber form the major imports.

The principal exports are iron ore, hides and skins, refined oil products, tobacco, oil cake scrap and twist and yarn.

Chairman : R. Balasubramanian, I.A.S. ; *General Manager :* C. R. Govindarajan ; *Secretary :* J. Cyril Raj.

MORMUGAO :

The Port of Mormugao is a major port of India providing modern facilities in handling both ore and general cargo traffic.

It is foremost among Indian ports in the export tonnage of ore and in the combined export tonnage of all items.

It held second position in total traffic tonnage handled during 1971-72.

During 1971-72, the Mormugao Port broke all its previous records in annual traffic by handling more than 11·7 million tonnes during the year, which was 0·7 million tonnes more than its own all-time record of traffic during the previous year of 11 million tonnes. The traffic in 1971-72 consisted of over 10·6 million tonnes of iron ore, 0·6 million tonnes of manganese ore, 6,000 tonnes of bauxite and 63,474 tonnes of oil-cakes — all in exports, and 0·44 million tonnes of imports consisting of mineral oils, fertilisers and general cargo.

Development project of the port : A massive project costing over Rs. 440 million for developing the port facilities is now under execution and is scheduled to be completed in 1974.

Chairman : V. Srinivaschari, I.A.S. ; *Secretary :* Shivakumar Dhindaw.

PARADIP (ORISSA) :

Declared as a major port on 18th April, 1966 and opened to traffic from 1-11-1966, the Port handled traffic to the extent of 1·239, 1·532 and 2·157 million tonnes during the years 1968-69, 1969-70 and 1970-71 respectively. The main traffic is export of iron ore.

VISAKHAPATNAM :

Ships drawing upto 10·05 m. and having a length upto 195 m. can enter the harbour.

The inner harbour consists of a turning basin, six quay berths, two wharf berths for export of iron ore, an oil wharf consisting of two berths, one fertiliser berth, three jetty berths and four mooring berths. It can accommodate 14 ships alongside and 4 in the moorings.

All the six quay berths with a quay length of 1,083 metres are equipped with portal electric cranes, transit sheds, railway lines, etc.

EAST COAST PORTS (1971-72)

Ports	Receipts (Rs.)	Expenditure (Rs.)	No. of passengers embarked and disembarked	Imports in tonnes	Exports in tonnes	Weight of cargo in tonnes handled
Cuddalore ..	276,209	361,516	—	14,348	127,333	141,681
Kakinada ..	947,943	110,127	—	—	32,962	450,604
Machilipatnam ..	17,199	64,355	—	—	—	—
Nagapattinam ..	449,248	471,127	19,862	15,842	17,601	69,443
Tuticorin ..	3,917,064	3,952,492	34	507,201	515,528	1,022,729
Rameswaram ..	72,521	426,337	46,513	531	316	847
Colachel	49,511	41,029	—	—	61,950	61,950

MINOR PORTS OF MAHARASHTRA STATE (1971-72)

(Under Ports Organisation)

Ports	No. of passengers embarked & disembarked	Imports in tonnes	Exports in tonnes	Weight of cargo in m. tonnes handled
Vengurla Group of Ports	33,921	15,747	518,577	534,324
Vijaydurg Group	110,211	15,466	4,936	20,402
Ratnagiri Group	118,906	45,704	10,150	55,854
Rajpuri Group	25,756	1,679	5,269	6,948
Bandra Group	—	15,551	74,205	89,756
Mora Group	1,478,671	41,448	65,822	107,270

Chief Ports Officer, Maharashtra State, Head Quarters, Bombay 1 : Capt. V. V. Javadekar.

WEST COAST PORTS (1971-72)

Ports	Receipts (Rs.)	Expenditure (Rs.)	No. of passengers embarked and disembarked	Imports in metric tonnes	Exports in metric tonnes	Total tonnage of cargo handled in metric tonnes
Alleppey	120,198·40	285,774·00	—	15,143	12,893	28,036
Calicut	465,775·03	652,329·03	3,949	77,337	87,609	164,946
Trivandrum	42,768·55	61,230·87	—	29,021	—	29,021
Quilon	118,560·70	8,571·76	—	69,556	2,561	72,117
Koilthottam	Abolished	—	—	—	—	—
Ponnani	2,036·71	13,490·31	—	356	—	356
Badagara	1,049·65	23,047·48	—	—	—	—
Tellicherry	11,323·16	52,452·25	—	3,638	747	4,385
Cannanore	11,212·58	12,985·28	—	6,667	690	7,357
Azhikkal	102,562·00	82,222·53	—	5,631	14,951	20,582
Kasargod	1,236·55	8,571·76	—	296	—	296
Mangalore	85,100·00	178,436·00	—	—	42,710	42,710

A Dry Dock of 137 metres long and 18·44 metres wide with a depth of 5·63 metres below low water, which can take in ships of 128 metres in length and 4·9 metres draft is in use for docking of vessels.

There are 5 transit sheds capable of accommodating 36,450 tonnes of cargo. There are 2 storage sheds with a total capacity of 13,200 tonnes. For stacking mineral ores, a vast area of about 80,000 sq. metres which can accommodate about 300,000 tonnes at a time, is also available. Open space measuring about 36,400 sq. metres is available for the storage of pig iron, rock phosphate and sulphur.

The most important of the development works taken up in the IV Plan period is the construction of an outer harbour, at a cost of Rs. 370 million. The cost of the project is likely to increase to Rs. 580 million. After completion of the project, the Harbour can accommodate ore carriers upto 100,000 DWT. The capacity can be increased upto 200,000 DWT by undertaking additional works.

Chairman : H. Sambamurti. *Secretary :* T. S. Narasimhan.

GUJARAT PORTS

There are 48 ports in Gujarat State of which Kandla is a major port. Diu and Daman are still centrally administered. Besides these there are 11 intermediate ports and 34 minor ports.

NEW PORT DEVELOPMENT

Provision of Rs. 130 million has been made in the Fourth Plan for development of certain new ports.

The name of the port, the State and the amount allocated are given in that order: Gopalpur, Orissa, Rs. 4 million; Kakinada, Andhra Pradesh, Rs. 10 million; Cuddalore, Tamil Nadu, Rs. 8·90 million; Beypore, Kerala, Rs. 10 million; Karwar, Mysore, Rs. 75 million; Nurya Bay, Maharashtra, Rs. 10·70 million; Porbundar, Gujarat, Rs. 69·20 million; Spill-over schemes from Third Plan: Rs. 9·90 million.

RAILWAYS

HISTORY: First railway (consisting of 14 four-wheeled teak coaches carrying 400 passengers) in India ran over a distance of 33·6 kms. from Bombay to Thana on 16th April, 1853. Development of rail communications, however, took place after 1858. Upto the revolt in 1857, railway was practically unknown, except for a few miles around Bombay, Calcutta and Madras.

The revolt opened the eyes of the Government to the need for proper communications. Thus by 1871 a general system connecting the different provinces and the hinterland of each province with its ports was completed.

The Government of India took under direct management: The East India Railways — 1st January, 1925; Great Indian Peninsular Railway — 30th June, 1925; Burma Railways — 1st January, 1929; Southern Punjab Railway — 1st January, 1930.

Zonal Administration: The entire Government Railway system is now grouped into nine administrations (Headquarters within brackets): Southern Railway (Madras); Western Railway (Bombay); Central Railway (Bombay); Northern Railway (Delhi); Eastern Railway (Calcutta); South-Eastern Railway (Calcutta); North-Eastern Railway (Gorakhpur); North-East Frontier Railway (Pandu); South Central Railway (Secunderabad).

There are six non-government railways. The route kilometrage is given in brackets after the name:—

Arrah-Sasaram Light (104·86); Dehri-Rohtas Light (66·75); Futwah-Islampur (43·45); Howrah-Amta Light[1] (70·31); Howrah-Sheakhala Light[1] (27·16); Shahdara (Delhi)-Saharanpur Light[1] (148·87).

The highest administrative authority for the Railways is the Railway Board.

SOME BASIC FACTS

No. of Daily Passengers: 6·6 million; *First Sleeper Accommodation:* 1954; *Total No. of Sleeper Coaches:* 1,900 (1,400 broad gauge and 500 metre gauge); *Labour Force:* 1·36 million men and women; *Total Route Kilometrage:* 60,137·62 kms. *No. of Locomotives:* steam—9,436, diesel—1,202, electric—604; *No. of Coaches:* 24,500; *No. of Wagons:* 387,000; *No. of Special type Tank Wagons:* 25,276; *No. of Trains Daily:* 10,800; *No. of Stations:* 7,929; *Amount of Freight Carried Daily:* 0·6 million tonnes; *Railway Board Created:* 1905; *Rates Advisory Committee Created:* 1962; *Central Publicity Bureau Created:* 1st

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[1] They are all narrow gauge (0·762 m.) except the two Howrah-Amta and Howrah-Sheakhala which are light gauge (0·610 m.).

April, 1927. *Railway Budget separated from Central Budget :* 1925; *Carrying Capacity of Wagons :* 2 axle wagons 22 tonnes, 4 axle wagons 55 to 65 tonnes; *Gross Load of Average Freight Train :* Conventional (2 axle wagons) 2,230 tonnes, Special (4 axle wagons) 3,650 tonnes; *Container Service Introduced :* January, 1966; *No. of Trains Running Over* 1,000 *kms. :* 75; *No. of Trains Running Over* 2,000 *kms. :* 12; *Fastest Train :* Rajdhani Express (started 1969) — Delhi to Calcutta — covers 1,445 kms. in 17 hours — permissible speed 120 kmph; *First Electric Train :* 1925 — Bombay V.T. to Kurla — 16 kms.; *No. of Rail Bridges :* 104,299 (including 103,113 bridges having waterways); *No. of Level Crossings :* 41,063; *Biggest Marshalling Yard :* Mughalsarai — 6,000 wagons a day; *Longest Railway Platform :* Kharagpur 833 metres; *Total No. of Seats :* 1,668,003; *No. of Air-conditioned Seats :* 2,509; *No. of First Class Seats :* 126,848; *No. of Second Class Seats :* 61,502; *No. of Third Class Seats :* 1,477,084; *Man Days Lost Due To Illness :* 16,109,362 (1969); *Man Days Lost Due To Strikes :* 517 (1969-70); *Total Female Staff :* 16,627; *Total Female Officers :* 228, *Number of Electric Multiple Unit Coaches :* 1,830; *Money Spent On Amenities Provided To Passengers And Railway Users :* Rs. 44·6 million.

New Construction : A 15 year perspective plan has been drawn up for the Indian Railways for converting about 3,000 route kms. of metre gauge to broad guage. The civil works connected with this project are estimated to cost Rs. 1,750 million. Rs. 150 million are included in the current Plan for the purpose, out of which half has been spent.

About 724 route kilometres have been doubled so far and the doubling of another 800 kilometres is likely to be completed by the end of the Plan. Conversion of 326 route kilometres (Pune-Miraj-Kolhapur) from metre gauge to broad gauge has already been completed. New Conversion Schemes notably Viramgam-Okha-Porbandar, Ernakulam-Trivandrum, Guntakal-Bangalore, Barabanki-Gorakhpur-Samastipur totalling about 1,600 kilometres has been sanctioned. New lines connecting Obra-Singrauli, Hindumalkot-Sri Ganganagar, Maliya-New Kandla, Jammu-Kathua and Singrauli-Katri have been opened for traffic. Others including the Cuttack-Paradeep line and the Trivandrum-Kanyakumari-Tirunelveli line are making good progress.

Traffic : Passenger Traffic on the Indian railways has shown an increase of 15 per cent during December, 1972 in comparison with that of the last year. The revenue-earning freight traffic of the railways in Dec. 1972 was 15·5 million tonnes which indicates an increase of 0·90 million tonnes. The total revenue-earning tonnage lifted by the railways from April 1, 1972 upto December 31, 1972 was 128·5 million tonnes representing an increase of 4·72 million tonnes as compared to the previous year.

Electrification of Railway Lines : The total route length of railway line electrified on Indian Railways since the commencement of the 1st Plan aggregated to 3,195 route kms. on the 25 KV AC system, by the end of 1969-70. The total route length electrified, including 358 route kms. which already existed on 1500 V. DC system of traction on the Central and Western Railways was 3,553 route kms. as on 31st March 1970. During the IV Plan, 1,707 kms. of rail track are proposed to be electrified at a cost of Rs. 1,030 million.

Staff: Total staff (1969-70) — 1,361,542 (including non-government Railways staff of 4,633). Total cost of staff on Indian Government Railways (including those on loan from Indian Audit and Accounts Service) in 1969-70 was Rs. 4,208·1 million. Per capita annual cost of staff in 1970-71 worked out to Rs. 3,417. Railways have earmarked Rs. 300 million in the current Plan for staff amenities and staff quarters. About 520,000 residential quarters have so far been provided to the staff by the Railways. The number is increasing every year.

A total of 650 hospitals and health units with over 10,000 beds are run by the Indian Railways for railwaymen and their families. 700 recreation centres are maintained for the use of railwaymen in different railway centres. There are also 749 schools (primary and higher secondary) run by the railways, where railwaymen's children and wards are given preference in admissions. Numerous other welfare amenities are granted through a Staff Benefit Fund to which Railway administrators contribute Rs. 450 per head of staff per annum.

Loss Incurred by the Railways: As their contribution towards a welfare state Indian Railways incur an expenditure of Rs. 520 million in carrying low-rated cargo like foodgrains, coal, fodder, salt etc.; Rs. 590 million on suburban, passenger and parcel services; Rs. 10 million on freight concession to export articles; and Rs. 80 million on the maintenance of unremunerative branch lines.

Ticketless Travel: Costs the Railways about Rs. 250 million.

The Claims: Arising from theft and pilferage cost them another Rs. 49·5 million. The total compensation claims amounted to Rs. 140 million in 1970-71.

Railway Accidents : The total number of accidents on the railways had increased from 4,918 during 1970–71, to 4,959 during 1971–72.

Failure of the human element continued to be the largest single factor "responsible for accidents" like collisions and derailments which numbered 707 during 1970-71.

Railway Modernisation: The International Development Association, has announced a 75 million dollar credit (on a 50 yr. terms credit, including 10 years grace period) to the Indian Railways to help it improve and modernise the system. This credit will help the Railways to finance a 3-year Rs. 1,100 million investment programme which covers the manufacture of diesel and electric locomotives and rolling stock, line electrification, and track renewal.

The railways will spend, between April 1971 and March 1974, about Rs. 7,300 million for modernisation. This will enable in putting into service (during the 3 year period) about 700 locomotives, 570 EMUS, 30 rail cars, 4,000 other passenger cars, and 21,000 wagons (in terms of four wheelers), including about 17,000 broad gauge wagons. There will also be provision for track renewals, and bridge works, line capacity works and signal electrification, new lines, special stores, workshop machinery, plant and staff and passenger amenities.

Rail Surcharge: The railways collected about Rs. 187·531 million during 1971–72 and 1972–73 as refugees relief tax by enhancing railway fares consequent on the influx of refugees from Bangladesh.

Tariff charged on Indian Railways compared to other Railways : The railways charged 2·50 paise per passenger kilometre and 5·43 paise per tonne kilometre in 1969-70.

The British Railways charged 13·31 paise (passenger) and 14·20 (freight), the French National Railways 12·42 and 11·75, the German Federal Railways 14·75 and 16·80, the Canadian National Railways 15·39 and 6·86, the U.S. Class I Railroads 16·74 and 7·28, the Japanese National Railways 8·50 and 8·26 and the Pakistan Western Railways 3·78 and 7·08.

Railway Budget (1973-74)

(Figures in Rs. million)

	Actuals 1971–72	Budget estimates 1972–73	Revised estimates 1972–73	Budget estimates 1973–74
Gross traffic receipts	10,965·9	11,431	11,740	12,643·5
Ordinary revenue working expenses (net), (after taking credit for recoveries)	7,953·2	8,091·4	8,566·8	9,182·5
Appropriation to depreciation reserve fund from revenue	1,050	1,100	1,100	1,150
Appropriation to pension fund	120	160	160	160
Net miscellaneous expenditure (including cost of works charged to revenues)	151·9	157·3	157·4	174·8
Total	9,275·1	9,508·7	9,984·2	10,667·3
Net Railway revenue	1,690·8	1,922·3	1,755·8	1,976·2
Dividend to general revenues	1,512·4	1,597·0	1,631·8	1,726·1
Net surplus (+)/short-fall (—)	+178·4	+325·3	+124·0	+ 250·1
Operating ratio	831	818	837	830

Railway Statistics (1971-72)

			Central	Eastern	Northern	North-Eastern
Total Route Kilometrage			6,019·99	4,217·11	10,620·78	4,976·97
Broad Gauge (including electrified kms.)			4,844·36	4,085·73	6,928·47	52·47
Metre Gauge			381·87	—	3,432·75	4,924·50
Narrow Gauge			793·76	131·38	259·56	—
Kilometrage electrified			609·18	1,208·46	574·29	—
,, under construction			—	—	142·76	—
Capital at Charge (Rs. million)			4,634·96	4,412·487	4,788·61	1,157·8
Gross Revenue (Rs. million)			1,640·79	1,291·897	1,633·79	531·6
Working Expenses (Rs. million)			1,180·60	1,311·953	1,343·90	524·5
Net Revenue (Rs. million)			460·19	20·056	289·89	7·2
No. of Locos	Steam		895	1,082	1,494	818
	Diesel/Electric		199	108	119	—
	Diesel/Hydraulic		51	12	49	—
	Electric		134	190	77	—
Electric Motor Coaches			200	154	—	—
No. of Passenger Coaches (including other coaching vehicles, but excluding Brake vans			2,444	3,598	4,209	2,664
Passenger carrying capacity	Air Conditioned	(B.G.)	266	471	291	86
	,,	(M.G.)		—		
	First Class	(B.G.)	10,769	15,289	13,201	6,319
	,,	(M.G.)		—		
	,,	(N.G.)		62		
	Second Class	(B.G.)	5,099	6,322	7,991	7,542
	,,	(M.G.)		—		
	Third Class	(B.G.)	116,686	218,023	205,121	128,712
	,,	(M.G.)		—		
	,,	(N.G.)		2,139		
No. of Passengers Carried ('000)			629,881	347,544	276,128	175,408
No. of Goods Wagons (Covered)			31,634	65.753	33,096	19,457
No. of Special Wagons			7,554	—	12,721	4,137
No. of Goods Wagons (Open)			13,105	—	19,591	5,043
Tonnes Carried ('000)			42,654	60,882	45,298	14,053
No. of Staff			180,698	200,116	197,501	94,881

Railway Statistics (1971-72) — *(Contd.)*

		North-East Frontier	South-Central	Southern	South-Eastern	Western
Total Route Kilometrage		3,624·94	6,173·55	7,445·62	6,842	10,146·59
Broad Gauge (including electrified kms.)		636·21	2,931·98	2,334·47	5,363	2,865·04
Metre Gauge		2,923·43	2,871·96	4,958·09	—	6,079·81
Narrow Gauge		87·48	369·61	153·06	1,479	1,201·74
Kilometrage electrified		—	—	166·44	1,345	60·17
,, under construction		—	—	—	172·81	—
Capital at Charge (Rs. million)		2,100·00	2,234·80	3,395·4*	7,294·9	3,978·66
Gross Revenue (Rs. million)		380·00	948·90	1,008·1	1,835·4	1,739·9
Working Expenses (Rs. million)		548·00	780·40	955·2	1,259·5	1,247·6
Net Revenue (Rs. million)		172	168·50	52·9	564·1	492·3
No. of Locos	Steam	506	948	1,113	899	1,516
	Diesel/Electric	75	—	237	182	195
	Diesel/Hydraulic	—	—	8	16	27
	Electric	—	—	20	212	—
Electric Motor Coaches		—	—	43	32	137
No. of Passenger Coaches (including other coaching vehicles, but excluding Brake vans)		2,195	2,411	3,617	2,659	5,012
Passenger carrying capacity	Air Conditioned (B.G.)	—	14	259	318	466
	,, (M.G.)	70	—		—	126
	First Class (B.G.)	1,122	2,169	12,958	10,320	13,353
	,, (M.G.)	4,110	1,447		—	7,665
	,, (N.G.)	266	48		832	789
	Second Class (B.G.)	804	654	9,904	4,726	4,247
	,, (M.G.)	2,172	168		384†	5,453
	Third Class (B.G.)	15,679	46,347	229,372	105,457	96,586
	,, (M.G.)	63,987	33,722		—	120,208
	,, (N.G.)	1,021	6,873		11,361	9,692
No. of Passengers Carried ('000)		46,242	127,360	260,000	123,500	685,710
No. of Goods Wagons (covered)		7,194	10,984	18,775	16,939	32,237
No. of Special Wagons		2,125	745	—	8,061	8,239
No. of Goods Wagons (open)		2,566	3,137	9,659	22,467	12,341
Tonnes Carried ('000)		9,940	27,541	21,930	70,600	35,182
No. of Staff		82,689	100,915	131,950	178,149	N.A.

* Provisional. † Narrow Gauge. N.A. — Not available.

ROADS

Length of Roads in 1914 : 273,000 kms.

Length of Roads in April, 1973 : 1,337,000 kms.

Metalled Roads : 425,000 kms.

Unmetalled Roads : 912,000 kms.

Above Total Includes 395,000 kms. of tracks made by community development projects.

Progress in Five Year Plans

	Surfaced	Unsurfaced	Allocation Rs. in million
	Figures in kms.		
First Plan *	183,023	316,321	1,344·7
Second Plan	262,700	464,027	2,458·0
Third Plan	342,798	720,835	4,511·2
1970-71	407,045	880,243	1,421·1
1972-73 (Est.)	425,000	912,000	1,895·3

* Excludes Municipal, Forest, Irrigation & M.E.S. Roads.

National Highways : There are 55 roads classified as national highways in India. Total 28,819 kms. They are : (1) Delhi, Amritsar. (2) Jullundur, Srinagar, Uri. (3) Delhi, Calcutta. (4) Agra, Bombay. (5) Thana, Pune, Bangalore, Madras. (6) Cuttack, Madras. (7) Dhulia, Calcutta. (8) Banaras, Cape-Comorin. (9) Delhi, Ahmedabad, Bombay. (10) Ahmedabad, Kandla. (11) Rajkot, Porbandar. (12) Pune, Vijayawada. (13) Delhi, Fazilka, Pakistan. (14) Agra, Bikaner. (15) Jabalpur, Bhopal, Bisra. (16) Sholapur, Chitaldurg. (17) Ambala, Simla, Tibet. (18) Delhi, Lucknow. (19) Lucknow, Shivpuri. (20) Jhansi, Lakhnadon. (21) Allahabad, Mangawan. (22) Baranuni, Lucknow. (23) Pipra Raxaul, Nepal. (24) Gorakhpur, Banaras. (25) Mohania, Patna Bhaktiarpur. (26) Barhi Cooch Behar. (27) Sivok, Gandak. (28) North Salmara to river Brahmaputra. (29) Jamshedpur, Gobindpur. (30) Ranchi, Tatanagar. (31) Dalkhola, Behrampore, Calcutta. (32) Barasat, Bangaon, Pakistan. (33) Goalpara, Gauhati, Saikhoa Ghat. (34) Makum, Lekhapani. (35) Kamargaon, Imphal, Burma. (36) Jorhat, Shillong, Bangladesh. (37) Kolaghat, Haldia. (38) Sambalpur, Cuttack. (39) Raipur, Vizianagaram. (40) Madras, Dindigul. (41) Krishnagiri Ranipet. (42) Ernakulam, Cape Comorin. (43) Madurai, Dhanushkodi. (44) Nasik, Pune. (45) Belgaum, Panaji. (46) Haridaspur, Paradip Port.

(47) Chandigarh Manali. (48) Nowgong, Manipur Road. (49) Shillong, Agartala. (50) Palayam Kottai, Tuticorin. (51) Pathankot, Kandla. (52) Panvel, Panaji, Mangalore, Trichur. (53) Cortalim, Mormugao. (54) Rourkela, Talchar. (55) Bangalore, Hassan, Managalore.

Condition of National Highways : At the end of April, 1972, there were more than 18,000 kms of single-lane carriageways needing to be widened and over 3,000 weak, narrow or damaged bridges needing replacements.

State-wise length of National Highways (in kms. as in April, 1971).

Andhra-2,332 ; Assam-1,370 ; Bihar-1,800 ; Gujarat-1,033 ; Haryana-767 ; Kerala-395 ; Madhya Pradesh-2,675 ; Maharashtra -2,272 ; Mysore-1,278 ; Nagaland-103 ; Orissa-1,359 ; Punjab-525 ; Rajasthan-1,336 ; Tamil Nadu-1,675 ; Uttar Pradesh-2,228 ; West Bengal-1,370 ; Delhi-79 ; Himachal Pradesh-75 ; Manipur-211 ; border areas including Jammu & Kashmir-897. Total length including missing links, 23,780 kms.

Fourth Plan Outlay : Provision has been made for Rs. 3,284·5 million for development of national highways. Of this amount Rs. 2,930 million will be used to develop the existing highways and the rest for construction of new roads.

Roads Maintained by State Governments and Local Bodies as on 31-3-71 (in kms.)

State		Surfaced Roads	Un-surfaced Roads	Total
Andhra Pradesh	..	35,711	63,114	98,825
Assam	..	5,997	42,957	48,954
Bihar	..	24,509	96,531	121,040
Gujarat ..	..	20,663	33,750	54,413
Haryana ..	..	7,774	5,272	13,046
Himachal Pradesh	..	2,402	14,150	16,552
Jammu & Kashmir	..	4,810	14,071	16,552
Kerala	..	21,269	37,122	18,881
Madhya Pradesh	..	34,550	77,735	58,391
Maharashtra ..	..	41,423	41,212	112,285
Manipur ..	..	990	4,847	82,635
Mysore	..	50,495	39,492	5,837
Nagaland ..	..	376	4,763	89,987
Orissa	..	13,294	66,009	5,139
Punjab	..	11,458	63,770	79,303
Rajasthan ..	..	21,121	56,147	75,228
Tamil Nadu ..	..	50,110	26,675	77,268
Tripura ..	..	866	4,996	5,862
Uttar Pradesh	..	36,559	126,591	163,150
West Bengal ..	..	17,179	42,647	59,826
Union Territories	..	5,489	18,392	23,881
Total	..	407,045	880,243	1,287,288

India has the largest network of national highways in Asia.

The overall provision for roads of all types including those in the States' sector is Rs. 8,710 million in the Fourth Plan.

Express Highways : Five express highways have been built for fast movement of traffic. Two are in Bombay the Eastern and Western Express highways. The third runs between Calcutta and Dum Dum airport, the fourth between Sukinda mines to Paradip port in Orissa and, the fifth, almost 160 kms. long will connect Durgapur to Calcutta. Work on the last is in progress.

International Highways : There are two categories of International highways. The first are the main arterial routes linking the capitals of the countries and, the second, routes joining main cities, ports etc. with the arterial network.

The main arterial highway links India with Lahore in Pakistan and Mandalay in Burma running through Amritsar-Delhi-Agra-Calcutta-Golaghat-Imphal. The two link highways are one through Agra-Gwalior-Hyderabad-Bangalore to Danushkodi and the other from Barhi to Kathmandu. The other links will be Agra-Bombay ; Delhi-Multan ; Bangalore-Madras and Golaghat-Ledo.

Border Roads : A Border Roads Development Board was formed in 1960 to develop communications in north and north-eastern border areas.

World's Highest Road : The road from Manali in Himachal Pradesh and Leh in Kashmir runs at an average altitude of 4,267 metres (14,000 feet) and negotiates four very high passes varying from 4,876 metres (16,000 feet) to 5,486 metres (18,000 feet).

Revenue from Motor Transport: The 1970-71 expenditure on roads was about Rs. 2,569·6 million. This is made up of Rs. 1,421·1 million on road construction or improvements and Rs. 1,148·5 on maintenance.

During the same period the Central and State Governments earned Rs. 6,475·3 million which is made up as under :

Central Revenue : Motor spirit and diesel oil duties, tyre excise and import duties and vehicle parts import duties Rs. 4,345·3 million.

State Revenue : Vehicle taxes and passenger and goods taxes and sales taxes on motor fuel Rs. 2,130 million.

Nationalised Transport : Nationalised bus services cover almost the major parts of Gujarat, Maharashtra, Orissa, Manipur and Himachal Pradesh.

No nationalisation has taken place in Tripura, Goa and Pondicherry, but in the remaining parts of the country the extent to which services have been nationalised varies from one State to another. Some having started only experimental nationalisation as in Rajasthan while in some others such as Maharashtra and Gujarat, over 72 and 82 per cent respectively of the passenger buses are owned by the nationalised sector. Uttar Pradesh and Mysore have 74 per cent of buses under State ownership and Punjab 62 and Delhi and Orissa 42. In the rest of the country comprising Andhra Pradesh, Assam, West Bengal, Tamil Nadu, Jammu & Kashmir, Madhya Pradesh and Kerala State-owned buses vary from 16 to 36 per cent. In the country as a whole the number of nationalised buses increased from 26,494 in 1966 to 40,571 in 1972 and accounted for 42 per cent of passenger services in the later year.

Freight transport is operated by certain State Transport organisations such as those in Assam, Orissa, Uttar Pradesh, Jammu & Kashmir and Himachal Pradesh and also by the Central Road Transport Corporation. While these freight lorries as a rule operate on charter basis or on scheduled parcel services without monopoly, the State Transport in Assam has a monopoly of the truck traffic on a small part of the road system. Again, goods traffic in Himachal Pradesh is a virtual State monopoly. The number of goods lorries operated by nationalised concerns is, however, less than one per cent of the total goods vehicles in India.

Road Traffic : The number of motor vehicles in use in India is shown in a table in the section "Automobile Industry".

Road traffic in 1972 was more than 5 times that of 1951 in the passenger bus field and nearly 10 times in the field of goods haulage. The extent to which the road system needs to be enlarged and improved to cater to traffic demands can be seen from the fact that during the 5 years of the Fourth Plan ending 1974, passenger traffic is further expected to grow by over 40 per cent while goods traffic is expected to double itself. The table shows trends of traffic growth :

	Volume of road traffic	Percentage share of road in total road and rail traffic
Goods Traffic :		
1950–51 ..	6 billion tonne-kms	12·00
1955–56 ..	9 ,, ,,	13·00
1960–61 ..	17 ,, ,,	16·20
1965–66 ..	34 ,, ,,	22·50
1968–69 ..	41 ,, ,,	25·00
1973–74 .. IV Plan estimate	84 ,, ,,	34·60
Passenger Traffic :		
1950–51 ..	23 billion passenger kms	25·60
1955–56 ..	31 ,, ,,	32·50
1960–61 ..	57 ,, ,,	42·20
1965–66 ..	82 ,, ,,	46·10
1968–69 ..	98 ,, ,,	47·60
1973–74 .. IV Plan estimate	140 ,, ,,	50·90

COMMUNICATIONS

POST AND TELEGRAPH

History : The first postal system was introduced in 1766 by Lord Clive, for official purposes only. In 1837, it was opened to the public and the first issue of postal stamps was made in Sind in 1852. The basis of authority of the existing postal system in India, is Act 6 of 1858. The first official airmail flight was taken on 18 Feb. 1911, by M. Pequet, a French aviator.

The first experimental telegraph line from Calcutta to Diamond Harbour was laid by Dr. William B. O. Shanghnessy. The first telegraph line was opened for traffic in October 1851. Telegraph circuits were gradually extended to all parts by 1867.

Administration : The Indian Posts and Telegraphs Department, the second largest civil employer in the country, comes under the administrative control of the Government of India, in the Department of Communications. The Secretary of the Department holds charge of the office of the Director-General, Posts and Telegraphs as also that of the Chairman of the Posts and Telegraphs Board.

The Department has been divided into Territorial Units — or Post & Telegraph circles — in Andhra Pradesh, Assam, Bihar, Gujarat, Jammu & Kashmir, Kerala, Madhya Pradesh, Tamil Nadu, Maharashtra, Mysore, Orissa, Punjab, Rajasthan, Uttar Pradesh and West Bengal.

Staff : The total staff at the end of 1971-72 was 605,089.

Traffic Statistics

The volume of business in respect of money orders and postal orders earned the Govt. Rs. 126 million and showed an increase of 8·4 per cent over the previous year. One thousand and twenty four million money orders (value Rs. 6,517 million) were issued. The department handled 7·7 million postal orders (value Rs. 37 million). There were 108,429 post offices which held 22 million saving bank accounts with a total of Rs. 10,250 million. The amount in saving certificates was Rs. 8,835 million.

Budget (In Rs. Million)

Item	Revised Estimate 1970-71	Budget Estimate 1971-72	Budget Estimate 1972-73
Revenue Receipts ..	2,609·3	2,851·2	3,227·5
Working Expenses (Net)	2,391·3	2,600·9	2,655·4
Net Receipts	218·0	250·3	572·1
Dividend to General Revenue	138·7	154·2	172·2
Surplus	79·3	96·1	399·9
Appropriation to Revenue Reserve Fund	79·3	36·1	4·9
Appropriation to Capital Reserve Fund ..	—	6·00	395·0

Pin Code : Postal Index Number code was introduced on 15-8-72. This is a 6 digit code which identifies and locates every departmental delivery office. The first digit indicates the region, the second district the sub-region and the first 3 digits taken together the central sorting office. The last 3 digits indicate a particular delivery post office in the area served by this district.

Foreign Post : Insured air mail letter service was introduced to the following countries from December 1, 1970 — Bahrain, Dubai, Iran, Iraq, Italy, New Zealand, Portugal, Poland, Singapore, Spain and the U.S.S.R.

In April, 1971 Air Parcel Service was introduced to the following countries : Abu Dhabi, Burundi, Central African Republic, Chad, Dahomey, Guinea, Malagasy Republic, Mali, Mauritania, Muscat and Oman, Niger, Qatar, Bawanda, Senegal, Swaziland, Togo, Tunisia and Upper Volta. Also Insured Air Parcel Services were started to Abu Dhabi, Chad, Mali, Mauritania, Muscat & Oman, Niger, Senegal, Togo and Upper Volta.

No. of Post Offices : There were 113,232 post offices on December 31,1972 as compared to 103,410 in December 1969.

A post office today serves an average area of 28·65 sq. kms. and a population of 4,901 as against 142·08 sq. km. and a population of 16,134 at the time of Independence. The Fourth Plan target of 16,700 new post offices is likely to be achieved. During the first 3 years of the Plan 10,262 new offices have been opened. Of these 3,757 were opened during 1971-72.

There are 101,120 letter boxes in the country.

Night Post Offices

There were 132 Night Post offices at the end of 1972. From 15-2-72 these are open on postal holidays and Sunday. From the same day a late fee of 10 P. has been introduced on articles presented for Registeration during the extended hours, i.e. from 4-40 p.m. to 8-30 p.m.

Service in Villages : At the end of 1970 — 340,144 of India's 500,000 — odd villages were receiving their mail daily. 47,525 villages get their mail once a week.

Mail Between India and Bangla Desh : An ad hoc arrangement has been made since 20-12-71 for the exchange of mails between India and Bangla Desh.

Commemorative Stamps : The following postage stamps have been issued during the year 1972, (with their name, denomination and date of issue respectively):

Silver Jubilee of ISI — 20P. — 29-5-72 ; Golden Jubilee of the International Union of Railways — 20P. — 8-6-72 ; India's participation in Olympic games — 20P. — 10-8-72; Silver Jubilee of 25th Anniversary of India's independence — 20P. — 15-8-72 ; Birth Centenary of Sri Aurobindo — 20P. — 15-8-72 ; On Defence services — 20P. — 15-8-1972 ; In Memory of V.O. Chidambaram Pillai — 20P. — 15-8-72 ; In Memory of T. Prakasam — 20P. — 16-10-72 ; In Memory of Bhai Vir Singh — 20P. — 16-10-72 ; In Memory of Bertrand Russel — 20P. — 16-10-72 ; In Memory of Poet Vemana — 20P. — 16-10-72; In Memory of Dr. Vikram Sarabhai — 20P. — 30-12-72 ; 50th Anniversary of U.S.S.U. — 20P. — 30-12-72.

Refugee Relief Stamp : Refugee Relief Stamps of 5 Paise to be fixed on all postal articles from 1-12-71 were discontinued on 1-4-72.

TELECOMMUNICATIONS

Telegraph Offices : There are 15,968 telegraph offices.

Nearly 58·4 million telegrams were booked during 1971-72 against 55·6 million in the previous year. Out of this 3·6 million were foreign telegrams. The inland telegrams yielded a revenue of Rs. 177 million and foreign telegrams Rs. 18 million. The photo telegrams between Calcutta, Bombay, Delhi and Madras and New Delhi and between India and foreign countries during the year were, 1,289 inland and 397 Foreign. The incoming photo telegrams increased by 7·6 per cent to 2,634. There are 279 telegraph offices in the country which deal exclusively with telegram.

Radio Telegrams : 68,534 R.T.s from Ships and 34,964 to ships netted Rs. 2·4 million.

Phonograms : Booked during the year were 8·6 million. The Service was available to 2,269 stations at the end of 1971-72.

Teleprinters : There were 15,993 teleprinters in use in the country, as on 31-12-70. This figure includes 600 Devnagri teleprinters.

Telex : The number of telex subscribers went up by 1,056 to 6,490 at the end of 1971-72. The increase in number of subscribers was 19·4 per cent. The telex revenue went up by 35·7 per cent to Rs. 77·9 million. During the year five more telex exchanges were commissioned raising the total to 39.

This most important development in the subscriber-to-subscriber transmission of printed messages took place when teleprinter exchanges were commissioned at important cities on June 24, 1963. The installed capacity on 30-12-72 was 9,810 lines. The Service is available to 165 countries.

Telephones

In 1971-72, 76,000 new connections including Junctions were provided bringing the total to 1·12 million by the end of 1971.

The number of telephones, which include extensions, went up by 103,000 to 1·48 million. Waiting list moved up from 310,000 to 314,000 despite expansion. With the expansion of existing exchanges (3,967) and the 238 new ones, the installed capacity in the country increased by 83,000 lines to a total of 1,330,000 lines. From August 1971, OYT was extended to all the exchanges in the country. Since its inception, 232,462 connections have been given under this scheme bringing the revenue to Rs. 655 million, by 15-10-72.

Subscriber Trunk Dialling : In this system, a subscriber can himself directly dial the number of the distant exchange subscriber. This facility is now available on the following routes, *viz.*, Lucknow-Kanpur, Delhi-Agra, Delhi-Jaipur, Agra-Kanpur, N. Delhi-Kanpur, N. Delhi-Lucknow, N. Delhi-Patna, N. Delhi-Jullundur, N. Delhi-Meerut, Madras-Bombay, Madras-Bangalore, Kanpur-Varanasi, Delhi-Simla, Delhi-Ahmedabad, Delhi-Jammu, Delhi-Srinagar, Srinagar-Jammu, Madras-Tiruchirapalli, Srinagar-Baramulla, Srinagar-Anantnag, Srinagar-Sopro and Bombay, Ahmedabad, Madras-Chingleput, N. Delhi-Amritsar, Amritsar-Chandigarh, Delhi-Jullundur, Shillong-Gauhati, Jullundur-Amritsar and Dehra Dun-Mussooree, Bombay-Pune, Bombay-Surat, Patna-Muzaffarpur, Bangalore-Hubli.

Trunk Automatic Exchanges : Till about 5 years ago, the STD was available only on point to point basis. The department has since installed Trunk Automatic Exchanges (TAXs) which provide the facility to subscribers of one station to dial the suscribers of other stations which are connected to the same TAX. Such TAXs have been installed at Madras, Bombay, Delhi and Kanpur stations.

Microwave Radio Relay Systems : Communication by microwave system was available on a route length of 2,270 kms. Work is in progress on various other routes.

OVERSEAS COMMUNICATION SERVICE

India's Overseas Telecommunications network has four gateway centres at Bombay, Calcutta, New Delhi and Madras. It consists of wireless telegraph, photo-telegraphs and radio-telephone system from all the four centres.

The Satellite connection with Bombay started early in 1971 and since then most of the circuits have been transferred to satellite medium from H.F. radio.

Satellite Operation : Since 26th February, 1971 certain services have been transferred to Satellite operation. These are :

Telephone Connections : with Australia, Bahrain, Canada, East Africa, France, Germany (Federal Rep.), Hong Kong, Italy, Japan, Kuwait, Malaysia, Singapore, Switzerland, United Kingdom and the United States.

Telegraph Connections: with Australia, Canada, East Africa, Germany (Federal Rep.), Italy, Japan, Switzerland, United Kingdom, United States (WUI), United States (RCA).

International Telex Service: with Australia, Austria, East Africa, Germany (Fed. Rep.), Japan, Switzerland, United Kingdom, United States (RCA, WUI, ITTCOM).

Photograph Service: with Australia, France, Italy, Japan, United Kingdom East Africa.

H. F. Services

Radio Telephone Service: This Service is with Aden, Afghanistan, Bangla Desh, Burma, China, Ethiopia, Indonesia, Iran, Nepal, Nigeria, Saudi Arabia, Sri Lanka, Viet Nam (South), Thailand and USSR.

Radio Telegraph Services: with Afghanistan, Arab Republic of Egypt, Burma, China, Czechoslovakia, France, Indonesia, Iran, Iraq, Kuwait, Nepal, Nigeria, Philippines, Poland, Rumania, Singapore, Thailand, United Kingdom, U.S.S.R., Vietnam (North & South), Yugoslavia.

International Telex Services: with Hong Kong, Nepal, Philippines, Sri Lanka, U.S.S.R.

Phototelegraph Services: in the Afghanistan, Poland and U.S.S.R.

Switched Telephone Services: This service enables connection through the distant terminal of the direct routs with 140 other countries and ocean liners who have the Facility.

Switched Telegraph Service: with practically all countries of the world.

Switched Telex Service: with 146 other countries.

BROADCASTING

History: Organised broadcasting was started in India in 1927 by private, Indian Broadcasting Company from Bombay and Calcutta. This lasted till 1930. Government of India decided to run radio stations in 1932. In 1935, broadcasting was constituted into a separate department. All India Radio replaced the earlier Indian State Broadcasting Service on June 3, 1936.

Commercial Services: Started in November 1967 it is now broadcast by 18 stations and has earned a gross revenue from the time of inception to 31st March, 1970, of Rs. 33,174,141. "Sponsored Programmes" are now broadcast from Bombay, Calcutta, Pune & Nagpur, on an experimental basis.

Vividh Bharati: The service entered its 16th year on October 3, 1972. It is broadcast on medium wave, from 34 centres and has an out put of 12 hours 25 m. daily.

News Bulletins: AIR broadcasts 207 news bulletins a day. Of these 160 are in home services and 47 in the external services. Total duration of news bulletins from AIR comes to 30 hours 18½ m. a day.

Correspondents: AIR has 129 correspondents of whom 75 are on a part-time basis.

Broadcast Receiver Licensing (as on 30th June 1972): There were 10,814,261 B.R. licences and 56,997 for television sets. Nearly 190,000 unlicensed sets were detected during the year. During 1-1-72 to 30-6-72, the department collected Rs. 144 million as licence fee and surcharge.

External Services: The External Services Division of All India Radio, broadcast programmes round the clock in 21 languages (6 Indian, and 15 foreign languages) for a total duration of 46 hours and 12 minutes every day.

Monitoring Service: During 1971-72, monitoring service continued as a source of news and information regarding the propaganda trends of neighbouring countries. On an average 101 transmissions from 24 stations covering 19 countries were monitored daily in 11 languages, and monitored material was supplied to different government departments. At present there are 11 minitoring stations.

Transcription and Programme Exchange: The Library of Sound Archives set up in 1954, forms part of the office of the Transcription and Programme Exchange Service. Tape recording discs and stampers of recordings of different programmes are preserved in the archives' library.

The Programme Exchange Unit (Internal) maintains a continuous supply of recordings and scripts to AIR stations to enable them to give quality programmes at minimum cost.

TELEVISION

Television at Delhi started as an experimental service in 1959 and since then it has grown considerably. The duration of the general television programme in the evening transmission has been increased to 3 hours from July 1970. Bombay television station started on 2-10-72 It started with programme time limited to 2 hours and 15 minutes daily, which has been increased to 3 hours on week days and 3½ hours on Saturdays.

In the next three years it is proposed to open TV centres at Pune, Srinagar, Madras, Calcutta, Lucknow, Nagpur Bangalore, Hyderabad and Kanpur.

T. V. Licences: Up to the end of June, 1972, about 56,997 licences were issued.

PRESS IN INDIA

History: Press had its beginnings in India, when the first newspaper, a weekly double-sheet called "Bengal Gazette" was started by James Augustus Hickey on January 29, 1780, at Serampore near Calcutta. Many other newspapers followed in quick succession (19 were started before the end of the century). Most of these were in English, and were published, edited and read by Englishmen. In spite of their interesting editorial contents which consisted of political and private scandal, the newspaper circulation did not exceed 100. The first Indian owned newspaper "Bengal Gazette" was published by Gangadhar Bhattacharjee in 1816 (Price Re. 1).

Many independent and well-conducted papers flourished during the administration of Governor-General Lord Hastings, as he adopted a liberal policy of self-censorship for the press in 1818. One such magazine was "Calcutta Journal". This bi-weekly enjoyed a circulation of 1,000. A revision of policy by John Adam in 1823, necessitated the closing of "Calcutta Journal". However, press in India enjoyed considerably more freedom under the liberals William Bentick who replaced John Adams in 1828, and Sir Charles Metcalfe who replaced him.

Many other Indian language newspapers were started between 1816–1822. "Shri Mumbai-na-Samachar", started as a Gujarati weekly in 1822, by Fardoonji Marzban became a daily in 1832 and is perhaps the forerunner of the oldest living newspaper today, the " Bombay Samachar ". Best records however, are of Bengal press which between 1818–1855 turned out 99 newspapers and periodicals. The average life of each publication was 5 years. During the same period 10 more newspapers were published in the north and many Tamil and Telugu papers in Madras.

A great step in the history of Indian press was the establishment of the first railway line (1853) and first telegraph line in (1851). This and the submarine telegraph between India and England enabled the press to have a wider news coverage and nation-wide circulation.

After the mutiny of 1857 regulation and restraint of press was reimposed by Act XV of 1857. Out of 35 publications of 1853, six survived till 1857. Act XXV of 1867 was designed for the regulation of printing presses and newspapers. With little alteration this Act is still in force. In 1878 Vernacular Press Act was passed which put restraint on the vernacular press. This Act, however was repealed four years later. Indian Official Secrets Act was passed in 1889.

Some of our big newspapers were started in the latter half of the 19th century. In 1861, editor Robert Knight of "Bombay Times" combined with "Standard" and the amalgamated "Telegraph and Courier" to form the "Times of India". In 1865 "Pioneer" was started in Allahabad. In 1868 "Amrit Bazar Patrika" was started. "Civil and Military Gazette" followed in 1872. In 1872 Robert Knight started the "Statesman" in Calcutta, and "Hindu" was founded in Madras in 1878. In 1881, Bal Gangadhar Tilak started the "Kesari" (Marathi) and "Maharatta" (English).

At a Glance :

Number of	Year	
	1970	1971
Dailies	695	821
Tri-weeklies and bi-weeklies ..	60	68
Weeklies	3,162	3,608
Annuals, Monthlies, Fortnightlies etc.	7,119	7,721
Total	11,036	12,218
School, College Magazines, Market Reports, House Journals, etc. ..	2,661	2,773
Total on record	13,697	14,991
Circulation ('000)		
Dailies	8,299	9,096
Tri-weeklies and bi-weeklies ..	123	104
Weeklies	8,424	8,068
Annuals, Monthlies, Fortnightlies etc.	12,457	12,354
Total	29,303	29,619
Languages with the largest number of papers		
Hindi..	3,116 newspapers	
City with the largest number of papers		
Delhi	1,341 newspapers	

In 1915 Press Association of India was formed. In 1935 photogravure process was first used in India by the "Illustrated Weekly of India". And in 1938, the Associated Press of India sent its first message on a teleprinter circuit. In 1937 when popular ministries were formed in 7 provinces, freedom of press became a reality. In September, 1939, World War II was declared and the Defence of India Rules were framed. Rule 41 reimposed controls on the press.

However, with the freedom of the country in August, 1947, came the Indian Constitution which guaranteed freedom to the press under Article 13 and 19. Important events of the post-independent press were the formation of Audit Bureau of Circulation (1948), starting the Press Trust of India (1949), Newsprint Control Order (1952), Press (Objectionable Matters) Act No. LVI (1951) and the appointment of a Commission to make an inquiry into the state of the press in India. The recommendations of this Commission are being implemented at present.

Language-wise break up (daily papers) 1971

Language	*Number*	*Circulation* ('000)
English	73	2,219
Hindi..	222	1,516
Malayalam	60	1,111
Tamil	97	908
Marathi	77	910
Gujarati	43	683
Bengali	15	597
Urdu	102	376
Kannada	39	314
Telugu	17	237
Oriya..	7	90
Punjabi	18	73
Assamese	2	25
Sindhi	4	21
Sanskrit	1	1
Other Languages (including bilinguals and multilinguals) ..	39	40
Total	821	9,096*
	1970	1971
Number of languages in which newspapers were published ..	60	53

* Including bi-weeklies and tri-weeklies.

REVIEW

Observations and statistics are taken from the 16th Annual Report of The Registrar of Newspapers in India for the year 1972.

The total number of newspapers in India rose from 8,640 at the end of 1966 to 12,218 at the end of 1971. An increase of 41·4 per cent. The number of daily papers rose from 549 to 829, that is by 49·5 per cent (See table on P. 463).

There was a record increase in the number of periodicals during 1971, that is 10·7 per cent over the previous year. There were 126 new dailies started during this period.

100 YEAR OLD PAPERS : A list of newspapers over 100 years old (in 1971) is given below with the year of commencement : Bombay Samachar (Gujarati), Bombay — 1822 ; Jam-e-Jamshed (Gujarati), Bombay — 1832 ; Times of India (English), Bombay — 1838 ; Calcutta Review (English), Calcutta — 1844 ; Tinnevelly Diocesan Magazine (Tamil), Madras — 1849 ; Examiner (English), Bombay — 1850 ; Guardian (English), Madras — 1851 ; A India (Portuguese), Panaji — 1861 ; Kheda Vartman

NUMBER OF NEWSPAPERS AND PERIODICALS (Language & Periodicity-wise), AS ON 31ST DEC. 1971

Language	Dailies	Tri & Bi-Weeklies	Weeklies	Fort-nightlies	Month-lies	Quarter-lies	Bi-month-lies & Half yearlies	Annuals	Total 1971
English	78	7	305	206	990	510	217	77	2,390
Hindi	222	29	1,394	387	907	131	35	11	3,116
Assamese	2	1	10	8	14	5	1	—	41
Bengali	15	5	170	113	295	113	45	4	760
Gujarati	43	3	146	70	281	31	14	6	594
Kannada	39	2	94	23	109	15	2	1	285
Malayalam	60	—	78	74	246	14	4	5	481
Marathi	77	3	275	53	245	42	19	27	741
Oriya	7	—	17	16	59	13	4	1	117
Punjabi	18	—	103	15	99	13	11	—	259
Sanskrit	1	—	2	2	11	9	3	—	28
Sindhi	4	—	31	5	34	2	1	1	78
Tamil	97	2	89	128	278	17	4	—	615
Telugu	17	1	102	65	190	10	1	—	386
Urdu	102	8	468	120	278	19	7	3	1,005
Bi-lingual	24	5	249	101	399	106	51	20	955
Multi-lingual	4	1	46	20	91	26	20	9	217
Others	11	1	29	14	57	25	12	1	150
Total 1970	821	68	3,608	1,420	4,583	1,101	451	166	12,218

NUMBER OF NEWSPAPERS AND PERIODICALS (State and Periodicity-wise), AS ON 31ST DEC. 1971

State-Union Territory	Dailies	Tri & Bi-Weeklies	Weeklies	Fort-nightlies	Month-lies	Quarter-lies	Bi-month-lies & Half yearlies	Annuals	Total 1971
Andhra Pradesh	34	4	206	95	253	31	12	3	638
Assam	7	3	41	15	39	8	7	1	121
Bihar	10	1	108	33	86	27	3	—	268
Gujarat	43	2	144	71	246	24	16	1	547
Haryana	6	2	83	39	59	5	6	—	200
Jammu & Kashmir	18	1	79	10	10	3	2	—	123
Kerala	63	—	90	81	336	40	15	8	633
Madhya Pradesh	69	14	270	45	97	25	8	—	528
Maharashtra	120	6	516	146	667	206	100	84	1,845
Mysore	62	2	135	36	175	35	14	3	462
Orissa	7	—	22	18	58	18	9	3	135
Punjab	33	1	167	59	163	22	17	1	463
Rajasthan	32	5	302	114	161	40	9	2	665
Tamil Nadu	104	3	119	146	467	79	28	11	957
Uttar Pradesh	126	13	772	181	479	72	34	5	1,682
West Bengal	31	8	239	172	529	203	92	19	1,293
Delhi	31	2	224	128	661	215	62	18	1,341
Himachal Pradesh	—	—	27	10	20	8	3	—	68
Manipur	9	—	2	7	11	6	6	2	43
Tripura	4	1	9	—	—	1	—	—	15
Chandigarh	5	—	35	7	36	19	4	4	110
Nagaland	—	—	2	1	—	1	—	—	4
Pondicherry	—	—	4	3	15	12	2	—	36
Goa	6	—	9	3	14	1	1	1	35
Andaman & Nicobar	1	—	2	—	1	—	1	—	5
Total 1970	821	68	3,608	1,420	4,583	1,101	451	166	12,218

(Gujarati), Kaira — 1861 ; Belgaum Samachar (Marathi), Belgaum — 1863 ; Gujaratmitra and Gujarat Darpan (Gujarati), Surat — 1863 ; Pioneer (English), Lucknow — 1865 , Mail (English), Madras — 1867 ; Amrit Bazar Patrika (English), Calcutta — 1868 ; Sathia-Varthamani (English-Tamil), Madras — 1870 ; U.S.I. Journal (English), New Delhi — 1870.

Circulation : The total circulation of newspapers in India was 29·61 million during 1971. The circulation of dailies (including bi-weeklies and tri-weeklies), rose by 9·2 per cent., whilst that of periodicals dropped by 2·2 per cent.

Daily Press : The total number of daily newspapers published in India stood at 821 in 1971.

The language-wise break-up (with their circulation figures in brackets) is given below :—

Hindi — 222 (1·52 m) ; Urdu — 102 (·376 m) ; English — 78 (2·22 m) ; Marathi — 77 (·910 m) ; Malayalam — 60 (1·11 m) ; Gujarati — 43 (·683 m) ; Kannada — 39 (·314 m) ; Tamil — 97 (·908 m) ; Bengali — 15 (·597 m) ; Punjabi — 18 (·073 m) ; Telugu — 17 (·237 m) ; Oriya — 7 (·090 m) ; Sindhi — 4 (.021 m) ; Sanskrit — 1 (1,000).

Dailies With Circulation Above 100,000 (1970) : Anand Bazar Patrika (Bengali) Calcutta — 308,316 ; Malayala Manorama (Malayalam), Kottayam — 211,050 ; Jugantar (Bengali) Calcutta — 210,849 ; Loksatta (Marathi) Bombay — 160,084 ; Times of India (English) Bombay — 156,904 ; Nav Bharat Times (Hindi) Delhi — 182,300 ; Hindustan (Hindi) New Delhi — 155,191 ; Hindustan Times (English) New Delhi — 149,566 ; Statesman (English) Calcutta — 145,123 ; Kerala Kaumudi (Malayalam) Trivandrum — 142,317 ; Hindu (English) — Madras — 141,376 ; Mathrubhumi (Malayalam) Ernakulam — 140,217 ; Amrit Bazar Patrika (English) Calcutta — 114,118 ; Mathrubhumi (Malayalam) Calicut — 125,571 ; Indian Express (English) Bombay — 103,200 ; Dinamani (Tamil) Madurai — 111,110 ; Thanthi (Tamil) Madras — 145,136 ; Maharashtra Times (Marathi) Bombay — 114,789 ; Sakal (Marathi) Poona — 100,784 ; Malayala Manorama (Malayalam) Calicut — 106,924 ; Tribune (English) Chandigarh — 105,153 ; Sandesh (Gujarati) Ahmedabad — 102,046.

Periodical Press : The number of periodicals published in India stood at 11,329 with a circulation of 20·42 million. The Statewise distribution of the periodicals was : Maharashtra — 1,719, Tamil Nadu — 850, Delhi — 1,308, West Bengal — 1,254, Uttar Pradesh 1,543, Kerala 570, Gujarat — 502, Mysore — 398, Andhra Pradesh — 600, Rajasthan — 628, Punjab — 429, Bihar — 257, Madhya Pradesh — 445, Haryana — 192, Assam — 111, Orissa — 128, Chandigarh — 105, Jammu & Kashmir — 104, Himachal Pradesh — 68, Pondicherry — 36, Goa — 29, Tripura — 10, Manipur — 34, Nagaland — 4, and Andamans — 4.

Language-wise Distribution of the periodicals in 1971, was : English — 2,305, Hindi — 2,865, Tamil — 516, Malayalam — 421, Gujarati — 548, Marathi — 661, Bengali — 740, Telugu — 368, Urdu — 895, Kannada —244, Punjabi — 241, Sindhi — 74, Oriya — 110, Assamese — 38, Sanskrit — 27, Bilingual — 926, Multilingual — 212, Others 138.

Government Publications : The total number of periodicals published by the Central Government and various State Governments stood at 421 in 1971. Central Government published 236, while State Governments brought out 185 periodicals. Weeklies numbered 21 and 23, fortnightlies 22 and 17, Monthlies 101 and 84, Quarterlies 68 and 46, Bi-monthlies and half-yearlies etc. 19 and 10, Annuals 5 and 5 for the Central and State Governments respectively. The largest number (191) of these periodicals appeared in English followed by Hindi (86). Among periodicals in these languages Central Government published 144 in English and 34 in Hindi, and the State Governments brought out 47 in English and 52 in Hindi.

Newspapers and Periodicals Published by Foreign Missions : The total number of newspapers/publications brought out by foreign missions in India, stood at 119 in 1971. U.S.S.R. published 48 publications ; U.S.A. — 20 ; G.D.R. — 11 ; Bulgaria — 4 ; France — 5 ; Cuba — 2 ; F.R.G. — 4 ; U.K. — 3 ; Iraq — 2 ; People's Republic of China — 2 ; Arab League — 2 ; and U.A.R., Australia, Canada, Ghana, Bureau of H.H. The Dalai Lama, Hungary, Israel, Italy, Mongolia, North Vietnam, South Vietnam, Poland, Sweden, Pakistan, North Korea, Nigeria, Netherland and the Philippines one each.

The English language claimed the largest number (48) of foreign missions' publications during the year, followed by Hindi — 12, Bengali — 9, Malayalam and Tamil — 7 each, Telugu — 6, Marathi — 6, Gujarati — 5, Kannada, Assamese and Punjabi — 3 each and Oriya — 2. These publications consisted of dailies 9 ; tri-weeklies and bi-weeklies — 23, weeklies — 7 ; fortnightlies — 35, monthlies — 35, quarterlies — 3 and other periodicals — 3. The total circulation claimed by foreign missions was 1·62 million in 1971.

Registration of a Paper : Publication of newspapers is regulated by the Press and Registration of Books Act, 1867 as amended from time to time. According to Section 5(2) of that Act the printer and publisher or printer as well as publisher of a proposed newspaper has to appear in person, or by agent authorised in this behalf, before a District, Presidency or Sub-Divisional Magistrate within whose jurisdiction the newspaper is to be printed or published, to file a declaration in respect of his paper indicating the title, language, periodicity, place of publication and other prescribed particulars.

Before authenticating the declaration, the Magistrate has to inquire from the Press Registrar "that the newspaper proposed to be published does not bear a title which is the same as, or similar to, that of any other newspaper published either in the same language or in the same State".

INDIAN NEWS AGENCIES

The following list is not exhaustive :

Press Trust of India (P.T.I.), 357, Dr. Dadabhai Naoroji Road, Bombay.

Dhiman Press of India, Ludhiana (Punjab).

Rao's Press Features, 160, VII Block, Jayanagar, Bangalore 560011.

United News of India, 9, Rafi Marg, New Delhi 110001.

Hindustan Samachar, 17-A, Shanker Market, New Delhi 110001.

India International News Service, 12 India Exchange Place, Calcutta 700001.

India News & Feature Alliance, Jeevan Deep Bldg., Parliament St., New Delhi 110001.

India Press Agency, IENS Bldg., Rafi Marg, New Delhi.

News Features of India, Anand Kunj, Linking Road, Bombay 400054.

Publication Syndicate, 1 Tansen Marg, New Delhi 110001.

Rachna Press Syndicate, A-12, Parle Colony No. 1, Koldongri, Bombay 400057.

FOREIGN NEWS AGENCIES

The following list is not exhaustive :

Agence France Presse : Bureau De New Delhi, 14 Friends Colony, New Delhi 110014.

Associated Press (of America) : 19, Narendra Place, New Delhi.

Reuters : 27, Prithviraj Road, New Delhi 110011.

Tass News Agency of U.S.S.R. : 18A Aurangzeb Road, New Delhi 110011.

United Press International : P.T.I. Bldg., Parliament Street, New Delhi 110001.

PRESS INFORMATION BUREAU

The Bureau has its offices in Srinagar, Jammu, Jullundur, Jaipur, Bhopal, Lucknow, Varanasi, Patna, Calcutta, Imphal, Gauhati, Cuttack, Hyderabad, Bangalore, Madras, Cochin, Panaji, Trivandrum, Poona, Bombay, Nagpur, Ahmedabad, Agartala, Chandigarh, Indore, Shillong and Vijaywada.

The Bureau's news, feature and reference services are provided in the following languages :

English, Hindi, Urdu, Gujarati, Marathi, Tamil, Bengali, Telugu, Malayalam, Assamese, Oriya, Punjabi, Kannada and Sindhi.

A news-letter is also being issued in Kashmiri language.

Principal Information Officer : H. J. D'Penha.

DIRECTORATE OF ADVERTISING AND VISUAL PUBLICITY

The Directorate of Advertising & Visual Publicity functions as the central organisation for the press advertising and visual publicity campaigns of the Ministries of the Government of India (excepting Railways), their attached and subordinate offices and a number of autonomous undertakings of the Government of India.

The Directorate has an Exhibition Division which, through its central and regional units, organises exhibitions depicting progress of the Five-Year Plans, Family Planning and other themes of national importance.

Director : K. K. Nair.

British Information Services : Chanakyapuri, New Delhi 110021.

U.S. Information Service : Bahawalpur House, Sikandra Road, New Delhi. BOMBAY OFFICE : 4 New Marine Lines, Bombay 400020 ; CALCUTTA OFFICE : 7, Jawaharlal Nehru Road, Calcutta 700013 ; MADRAS OFFICE : 158, Mount Road, Madras 600002.

U.S. Information Service Library : 24, Curzon Road, New Delhi.

American Library (USIS): 150-B, Mount Road, Madras 600002.

PRESS ASSOCIATIONS, SOCIETIES

All-India Newspaper Editors' Conference, 50-51, Theatre Communication Bldg., Connaught Place, New Delhi 110001 ; *President :* B. N. Azad.

The Indian & Eastern Newspaper Society, IENS Building, Rafi Marg, New Delhi 110001 ; *President :* K. Narendra (*Daily Pratap*) ; *Dy. President :* K. M. Mathew (*Malayalam Manorama Weekly*) ; *Vice-President :* P. K. Roy (*Swaraj*) ; *Hon. Treasurer :* M. Yunus Dehlvi (*Shama*) ; *Secretary :* R. D. Seth ; *Jt. Secretary :* P. C. Gandhi.

Indian Federation of Working Journalists, Flat No. 29, New Central Market, Connaught Circus, New Delhi 110001. *President :* S. B. Kolpe ; *Secretary-General :* B. R. Vats ; *Treasurer :* P. K. Ravindranath.

Indian Languages Newspapers' Association, Janmabhoomi Bhavan, Ghoga Street, Fort, Bombay 400001.

Press Owners' Association, Bombay, 196-B, Gaiwadi, Girgaum, Bombay.

Southern India Journalists' Federation, 15 Ritchie Street, Mount Road, Madras 600002.

PRESS CLIPPING SERVICE

All-India Press Cutting Service : D-2, Amerchand Mansions, Mayo Road, Bombay 400001.

Asiatic Press Clipping Service : H4, Model Town, Delhi 110009.

Indian Press Service : 16A, Friends Colony, New Delhi 110014.

The Asiatic Press-Clippings Service : P. B. No. 1663, 91, The Mall, Kingsway, Delhi 110009.

International Clipping Service : Lakshmi Building, Sir Pherozeshah Mehta Road, Bombay 400001.

Universal Press Service : 3, General Patters Road, Madras 600002.

PRESS PHOTO AGENCIES

Bombay Photo Stores Private Ltd. : 33-34, Park Mansions, Park Street, Calcutta.

News Photo Flash : 51 Kakanagar, New Delhi 110003.

Press Photo Bureau : 277, Pycrofts Road, Madras 600014.

THE PRESS COUNCIL BILL

Was passed in Nov. 1965. The object of the Council is to preserve the liberty of the press and maintain and improve the standards of newspapers in India.

The Press Council was set up in Nov. 1966 with Justice J. R. Mudholkar as Chairman and 25 members.

The new Chairman Mr. N. Rajagopala Ayyangar took over on May 4, 1968. The Press Council's first annual report was presented to the Parliament on Aug. 30, 1968 by the Minister for Information and Broadcasting.

MUNICIPAL CORPORATIONS (1973)

CIVIC rule in India is a little over a hundred years old. By now Municipal Councils in India number 1,500; and Municipal Corporations are functioning at: Agra, Ahmedabad, Allahabad, Bangalore, Vadodara, Bhopal, Bombay, Calcutta, Calicut, Chandranagore, Cochin, Delhi, Gwalior, Hubli-Dharwar, Hyderabad, Indore, Jabalpur, Kanpur, Lucknow, Madras, Madurai, Nagpur, Patna, Poona, Raipur, Sholapur, Surat, Trivandrum, Varanasi, Simla, and Bhubaneshwar.

As a general rule the Municipal Councils and Municipal Corporations are established in towns having a population of more than 20,000 and cities having a population of more than 300,000 respectively.

The State Government makes an assessment of the revenue and population of the town/city through the district collector prior to the establishment of the Municipal Council/Corporation.

When a city's revenue exceeds Rs. 20 million, the Council representing the city is upgraded with the concurrence and approval of the State Government.

In fact it is the responsibility of the States to establish Municipal Councils and Corporations. Schedule 7 of the Constitution of India, elucidates this point. The rules and regulations and powers of the Municipal Councils and Corporations vary from State to State.

The following table gives vital statistics of the four major Corporations — Bombay, Delhi, Calcutta and Madras. The column for Calcutta has been kept blank because all attempts to get the details failed. Perhaps, the reader would like to fill in whatever details he may succeed in obtaining.

	BOMBAY	CALCUTTA	DELHI	MADRAS
Established	1888		7–4–1958	29–9–1888
Area of Jurisdiction (Sq. km.)	437		1,399	128·83
No. of Administrative Wards	17		8	120
,, Electoral Wards	140		100	120
,, Cemeteries	120		N.A.	17
,, Markets (Corpn. owned and private)	62; 20		12	74
,, Slaughter houses	2		3	5
,, Labour Welfare Centres	43		N.A.	Nil
,, Recreation Centres	N.A.		N.A.	4
,, Slum dwellers	approx. 1·2 million		100,000 families	N.A.
,, Pavement dwellers	N.A.		10,000	N.A.
,, Beggars	N.A.		12,000	N.A.
,, Municipal employees	89,049		29,173	28,000
Annual wage and salary bill of Corporation (Rs. in million)	240·55		(Only gen. wing) 142·305	55·81
No. of Municipal Primary Schools	1,075		1,326	339s
,, Pupils in Primary Schools	528,802		367,692	159,687
,, Municipal Secondary Schools	50		*	29
,, Pupils in Secondary Schools	57,130		*	28,052
,, Student teacher ratio	35 : 1		35 : 1	40 : 1
Amount spent annually on education (Rs. in million)	97·64		757·41	21·64
No. of General hospitals	19		14	1,369**
,, Beds in General hospitals	5,397		1,168	36,954**
,, Patients in General hospitals	225,693		N.A.	N.A.
,, T.B. Hospitals	2		1	2
,, Beds in T.B. Hospitals	1,418		1,113	N.A.
,, T.B. patients	9,674		2,654	73,215
,, Dispensaries	90		48@	62
,, Patients treated in dispensaries	2,710,545		N.A.	4,044,191
,, Clinics	34		7 T.B.; 2 V.D. & 1 Leprosy.	N.A.
,, Patients	289,990		26,481	N.A.
,, Maternity homes	26		6	35

N.A.—Not available.

s Includes 148 Middle Schools.

* Taken over by Delhi Administration.

** Includes hospitals, dispensaries and primary health centres.

@ Includes Primary Health Centres.

	BOMBAY	CALCUTTA	DELHI	MADRAS
No. of Beds in maternity homes	1,187		86	407
,, Medical Colleges	4†			
,, Seats in Medical Colleges	385			
Birth rate in the City	27·2		25·72	38·95
Death rate in the City	9·5		7·51	12·49
No. of Child Welfare Centres	6		94‡	51
,, Family Welfare Centres	52		—	24
,, Doctors in City	N.A.		N.A.	N.A.
,, Nurses in City	N.A.		N.A.	N.A.
Population-Doctor ratio	N.A.		N.A.	N.A.
No. of Swimming Pools	3		N.A.	3
,, Hotels — Grade I	91		N.A.	N.A.
Grade II	665		N.A.	N.A.
Grade III	4,276		N.A.	N.A.
,, Residential hotels	427		N.A.	N.A.
,, Restaurants and eating houses	8,544		N.A.	N.A.
,, Shops	90,561		N.A.	N.A.
,, Commercial establishments	38,895		N.A.	N.A.
,, Factories	883		N.A.	N.A.
Density of population (per Sq. km.)	13,662		N.A.	15,865
Population of City	5,968,546		3,629,842	2,495,000
No. of Cars	69,102		N.A.	N.A.
,, Lorries	16,112		N.A.	N.A.
,, Buses	1,332		N.A.	N.A.
,, Cycles	N.A.		N.A.	N.A.
,, Motor Cycles and scooters	13,644		N.A.	N.A.
,, Passengers carried daily by buses	2,479,644		N.A.	N.A.
,, passengers carried daily by trains	N.A.		N.A.	N.A.
Tallest Building	Hotel Oberoi Sheraton**		Bank of Baroda	L.I.C. Building,
Height	127·71 metres		N.A.	N.A.
Longest Road	Swami Vivekanand Road		Ring Road	Anna Salai (Mount Rd.)
Length in km.	24·14		55	9·5
Longest Bridge	Mahalakshmi Bridge		N.A.	Elphinston Bridge
Length in metres	275			283·46
No. of Telephones	200,000 (Aug. 1971)		N.A.	N.A.
Fire Stations	14		13	N.A.
Fire hydrants	10,198		7,600	N.A.
Administrative Personnel				
Municipal Commissioner	M. W. Desai		B. S. Das	J. V. Satchidananda Rao.
Mayor	Sudhir Joshi		Kedar Nath Sahni	R. Arumugam
Public Relations Officer	K. T. Pandit		Basudev Sharma†	N.A.
Chief Engineer	J. R. Patwardhan		H. U. Bijlani	N.A.
Chairman, Standing Committee	H. J. Corea		I. D. Mahajan	M. Kanniappan
,, Improvements Committee	Hans Bhugra		Kedar Nath Sahni	S. K. Murthy
,, Education Committee	Smt. Deviben S. Dalal.		B. D. Gurg.	A. Selvarajan.

N.A.—Not available.

† 1 Dental College.

‡ Includes family welfare Centres and sub-centres.

** Tallest building in India.

† Press Information Officer.

COMMERCIAL FIRMS

MANUFACTURERS

ADHESIVES

Delhi

Bharat Glue Manufg. Co., 6469, Katra Baryan, Fatehpuri, Delhi 110006.

Delhi Glue & Paint Ind., Katra Baryan, Fatehpuri, Delhi 110006.

Gujarat

Neo Enterprise, 533, Padshaha's Pole, Relief Rd., Ahmedabad 380001.

Raymon Glues & Chemicals, " Kaustubh ", 46-B, Gautam Nagar, Race Course Circle, Vadodara 390007.

Maharashtra

Chemisol Ind., Devkaran Mansion, 41, Princess St., Bombay 400002.

Hazarat & Co., Warden House, Sir P. Mehta Rd., Bombay 400001.

Industrial Chemicals & Adhesives, Sussex Rd., Byculla, Bombay 400027.

Industrial Electronics & Allied Products, 1423, (New) Shukrawar Peth, Pune 411002.

Mahindra Electro-Chemical Products Ltd., Bombay-Pune Rd., Pimpri, Pune 411018.

National Adhesives & Chemicals Manufrs., 611, Prasad Chambers, Near Roxy Cinema, Bombay 400004.

Themis Agencies, 43, M. Karve Rd., Bombay 400002.

West Bengal

Dinils Adhesives Pvt. Ltd., 8/1B, J. Mohan Ave., Calcutta 700006.

Indian Eyelets Ind., 33, N. Subash Rd., Calcutta 700001.

AGRICULTURAL IMPLEMENTS

Andhra Pradesh

Hyderabad Iron & Steel Works, Ind. Area, Hyderabad 500018.

Jyothi Ind., C-31, Ind. Estate, Sanatnagar, Hyderabad 500018.

Krishi Engines Ltd., A-7 Unit, Sanatnagar, Hyderabad 500018.

Swastik Manufrs. Ltd., 128 M. Gandhi Rd., Secunderabad 500003.

Bihar

Arthur Butler & Co. Ltd., Muzaffarpur 842001.

Dhiman & Co. Pvt. Ltd., Station Rd., Patna 800001.

Linkers Pvt. Ltd., Jamal Rd., Patna 800001.

Tata Iron & Steel Co. Ltd., Jamshedpur 831001.

Delhi

Bali & Co. Pvt. Ltd., Najafgarh Rd., New Delhi 110015.

Central Tractor Org., Pusa Rd., New Delhi 110012.

Escorts Ltd., 11, Scindia House, Connaught Circus, New Delhi 110001.

Gupta Iron and Brass Works Pvt. Ltd., 29, Najafgarh Rd., New Delhi 110015.

Janata Steel & Metal Co-op. Ind. Soc. Ltd., 5948, Ballimaran, Delhi 110006.

Kapoor Engg. Works, B-41 & B-56, Rewari Line Ind. Area, New Delhi 110027.

Laldi Pvt. Ltd., Vijay Press Bldg., Naya Bazar, Delhi 110006.

Qualitex Mach. Pvt. Ltd., 11-6-B, Sadhu Marg, New Delhi 110005.

Raj Engg. Works Pvt. Ltd., Ajmerigate, Delhi 110006.

Shree Bharat Ind., 3 Darya Ganj, Delhi 110006.

Wilcox (Buckwell-India) Ltd., 32, Najafgarh Rd., New Delhi 110015.

Gujarat

Abdul Samad Abdul Kadar & Sons, 1839, Panchpathi, Kalupur, Ahmedabad 380001.

Agro Precision Imp. Ltd., Near I.T.I., Naroda, Ahmedabad 380001.

Bharat Techno Mechanical Ind. Ltd., Maneklal Rd., Navsari 396445.

Charotar Gramodhar Sahakar Mandali Ltd., Vallabh Vidyanagar.

Hindustan Tractors Ltd., Vishwamitri, Vadodara 390001.

Indequip Engg. Ltd., Reid Rd., Ahmedabad 380001.

Jyoti Ltd., Ind. Area, P.O. Chemical Ind., Vadodara 390003.

Sayaji Iron & Engg. Co. Ltd., Chhani Rd., Vadodara 390001.

Haryana

Haryana Steel & Alloys Ltd., 48th Km. Grand Trunk Rd., Murthal (Sonepat).

Quality Mach. (Pvt.) Ltd., Sector-6, Faridabad.

Laldee Pvt. Ltd., 11, Ind. Area, Faridabad.

Kerala

Brunton & Co., Engineers Ltd., Ballard Rd., Cochin 682001.

Calicut Metal Craft Pvt. Ltd., 5, Ind. Estate, Kozhikode.

Metal Ind. Ltd., Metindnanagar, Shoranur.

South India Corpn. Ltd., Cochin 682002.

Madhya Pradesh

Bhandari Iron & Steel Co., Silnath Camp, Indore 452001.

Central India Iron & Steel Co., 5117, Silnath Camp, Indore 452001.

Electro Agro Ind., Arora Colony, Bhopal 462001.

Rajkumar Mills Foundry, Silnath Camp, Indore 452001.

Simplex Engg. & Foundry Works, Nagpur Rd., Jabalpur 482001.

Maharashtra

Agricultural Discs (India) Ltd., United Bank of India Bldg., Sir P. Mehta Rd., Bombay 400001.

Agro Machinex Engg. Pvt. Ltd., 3-G/2, Court Chambers, New Marine Lines, Bombay 400020.

Ajanta Farm Mach. Co., Plot A-49, 'H' Block, M.I.D.C., Pimpri, Pune 411018.

Apeejay Pvt. Ltd., 24, Baroda St., Bombay 400009.

Bajaj Steel Ind. Pvt. Ltd., Imamabad Rd., Nagpur 440001.

Bbide & Sons Pvt. Ltd., Sangli 416416.

Cooper Engg. Ltd., Chinchwad, Pune 411001.

K.T. Steel Ind. Pvt. Ltd., Broach St., Bombay 400009.

Kirloskar Bros. Ltd., Kirloskarwadi, Satara Distt.

Larsen & Toubro Ltd., L.T. House, Dougall Rd., Bombay 400001.

Maharashtra Co-op. Engg. Soc. Ltd., Shirli, Kolhapur 416001.
Prefit Ind., 198, Carnac Rd., Bombay 400002.
Saurashtra Engg. Corpn. Pvt. Ltd., 106, Bazarwad, Kurla, Bombay 400070.
Shivaji Works Ltd., Tikekarwadi, Sholapur Dist.
Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400001.

Mysore

Craft Tools Pvt. Ltd., Harihar.
Mysore Imp. Factory, Hassan 573201.
St. Joseph's Asylum Ind. Workshop, Jeppoo, Mangalore 575001.
Vijaykumar Ind. Works, 39, Kemmungundi Rd., Bangalore 560002.

Orissa

Ispat Udyog, Rajrangpur.
Orissa Imp., Dolamandal Sq., Cuttack 753001.

Punjab

Aminchand Bholanath, Tanda Rd., Jullundur 144001.
Batala Machine Tools Manufrs. Co-op. Ind. Soc., Batala.
Central Foundry and Workshop, Grand Trunk Rd., Batala.
Daulat Ind. Corpn., Civil Lines, Ludhiana 141001.
Dharma Engg. Co., Grand Trunk Rd., Batala.
Hero Engg. Works, Grand Trunk Rd., Batala.
Ind. and Agricultural Pvt. Ltd., Old Railway Rd., Jullundur 144001.
Khemchand Rajkumar, Tanda Rd., Jullundur 144001.
Modern Mach. Makers, Railway Rd., Batala.

Tamil Nadu

Addison & Co. Ltd., 158, Mount Rd., Madras 600002.
Engg. Accessories Pvt. Ltd., F/14, Ind. Estate, Madras 600058.
Ind. and Agri. Engg. Co. (Madras) Pvt. Ltd., 2-17, Mount Rd., Madras 600002.
Kumbakonam Co-op. Metal Works Ltd., Gandhinagar, Kumbakonam 612001.
Masseys, Nr. Rly. Terminus Rd., Madras 600013.
Marshall Sons & Co. Manufg. Pvt. Ltd., A/4, Ind. Est., Madras 600058.
Ramsar Farm Mach. Pvt. Ltd., 13/18, Periaswamy Rd., Coimbatore 641002.
Simpson & Co. Ltd., 202, Mount Rd., Madras 600002.
St. Joseph's Ind. School & Press, Coimbatore 641001.

Rajasthan

Dhunna Agri. Imp. Manufg. Co., Sriganganagar 335001.
Vishwakarma Engg., Opp. Sindhi Camp, Jaipur 302006.

Uttar Pradesh

Charan Safe Works Pvt. Ltd., 6, Ind. Estate, Kanpur 208001.
Delhi Iron & Steel Co. Ltd., Grand Trunk Rd., Ghaziabad 201001.
Forimexco Engs. Pvt. Ltd., Civil Lines, Bareilly 243001.
Hind Engg. Works Pvt. Ltd., Latouche Rd., Kanpur 208001.
Hind Trading Manufg. Pvt. Ltd., Sharma Sadan, P. Rd., Kanpur 208001.
J. K. Satoh Agri. Mach. Ltd., Kamla Tower, Kanpur 208001.
R. R. Engg. Co. Ltd., Rampur 244901.
Rohilkhand Ind. Ltd., Bareilly 243001.

West Bengal

Agri. Mach. Manufg. Corpn. Ltd., 38/1, Bosepara Lane, Calcutta 700001.
Anand Metal & Steel Works, 137, Biplabi R. B. Basu Rd., Calcutta 700001.
A. T. Mohsin & Co., 71-A, N. Subash Rd., Calcutta 700001.
Bharat Shovel Works Pvt. Ltd., 169, S. P. Banerji Rd., Calcutta 700035.
C. Comens & Sons Pvt. Ltd., 1033, Diamond Harbour Rd., Calcutta 700001.
East Zone Supply Corpn., 1, Acharya J. Bose Rd., Calcutta 700020.
Marshall Sons & Co. (India) Ltd., 33/1, N. Subhash Rd., Calcutta 700001.
Metalcraft (India) Pvt. Ltd., 96, Garden Reach Rd., Calcutta 700001.
Mungpa Tractor Engg. Co. Pvt. Ltd., 425 Grand Trunk Rd., Lilooah, Howrah 711101.
Shaw Wallace & Co., 4, Bankshall St., Calcutta 700001.
Tractor & Mach. Pvt. Ltd., 25 G. Chandra Ave., Calcutta 700013.

AIR COMPRESSORS, PNEUMATIC EQUIPMENT AND SPARES

Andhra Pradesh

Shriram Refrigeration Ind. Ltd., P.O. Balanagar Township, Hyderabad 500037.

Delhi

Didwania Bros. Pvt. Ltd., Kashmeregate, Delhi 110006.
Industrial & Mining Equipment Co. Pvt. Ltd., 4/2, Roop Nagar, Delhi 110007.
K. G. Khosla & Co., Pvt. Ltd., 1, D. Gupta Rd., New Delhi 110055.
Pneumatic Spares Ind., 1778, Lal Kuan, Delhi 110006.

Gujarat

Engg. Corpn. of India Ltd., Sidhpur.
SLM-Maneklal Ind. Ltd., Vatva, Taluka Dascroi, Ahmedabad Dist.

Maharashtra

Air Control & Chemical Engg. Co. Ltd., Dr. A. Besant Rd., Bombay 400018.
Atlas Capco (India) Ltd., M. Gandhi Memorial Bldg., N. Subash Rd., Bombay 400002.
Consolidated Pneumatic Tool Co. (I) Ltd., 301/302 Agra Rd., Mulund, Bombay 400080.
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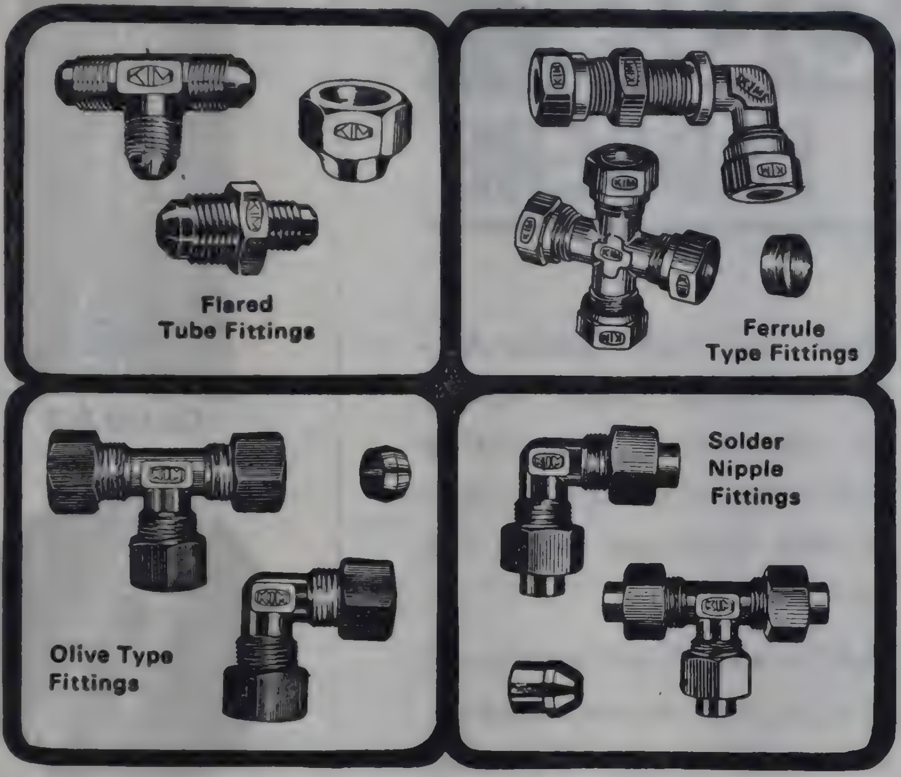

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Sundaram Fastners Ltd., 37, Mount Rd., Madras 600002.
T. I. Diamond Chains Ltd., 11, N. Beach Rd., Madras 600001.
Unicorn Pvt. Ltd., 29, Mount Rd., Madras 600002.
Union Co. (Accessories) Pvt. Ltd., 29, Mount Rd., Madras 600001.
Universal Radiators, Avadi Rd., Madras 600053.
Upper India Bearings Ltd., 4/147, Mount Rd., Madras 600006.
Wheels India Ltd., 37, Mount Rd., Madras 600001.
Wheels & Rims Co. of India Ltd., Huzur Gardens, Madras 600010.

Uttar Pradesh

Auto Ind. Ltd., M. M. Malviya Marg, Lucknow 226001.

Hindustan Ind. & Machines Manufg. Co. Ltd., Konia Kashi, Varanasi 221001.

Jain Miniature Bulb Ind., 18, A. Pokharpur, Kanpur 208001.

Luthra Radiator & Press Works Co., 23, Govt. Ind. Estate, Agra 282001.

Meghdoot Pistons Pvt. Ltd., 6, Ind. Estate, Agra 282001.

Reinz Talbros Pvt. Ltd., 19A, Loni Ind. Estate, Ghaziabad 201001.

West Bengal

A. R. Pvt. Ltd., P-74, Bentinck St., Calcutta 700001.

Ahuja & Co., 82, Chetla Rd., Calcutta 700027.

Bharat Automobile Ind., 7, G. Chandra Ave., Calcutta 700013.

Calcutta Spring Manufg. Co., 84, Clive St., Calcutta 700001.

Coventry Spring & Engg. Co. Pvt. Ltd., 23, G. Chandra Ave, Calcutta 700013.

Duncan Bros. & Co. Ltd., 31, N. S. Chander Rd., Calcutta 700001.

Fritz & Singh Pvt. Ltd., 9, Rowdon Rd., Calcutta 700016.

Goodyear India Ltd., 225C, A. J. Bose Rd., Calcutta 700020.

Guest Keen Williams Ltd., 41, Chowringhee Rd., Calcutta 700001.

Henry Morgan & Co., Gupta Mansions, 71A, N. Subash Rd., Calcutta 700001.

Hindustan Motors Ltd., India Exchange Place, Calcutta 700001.

Hydorlifts & Equipment Pvt. Ltd., 10, Princep St., Calcutta 700013.

Nipha Machinery Manufrs. Pvt. Ltd., 25, N. Subash Rd., Calcutta 700001.

Orient General Ind. Ltd., 111/1, Barrackpore Trunk Rd., Calcutta 700035.

Tecalemit (Hind) Ltd., Gopalpur-Budge Budge Rd., P. O. Sarkarpool, *Via* Maheshtala, 24-Parganas.

Usha Automobile & Engg. Co. Ltd., 14, Princep St., Calcutta 700001.

Usha Telehoist Ltd., 14, Princep St., Calcutta 700013.

Vijayshree Commercial Pvt. Ltd., 4, India Exchange Place, Calcutta 700001.

BALL, ROLLER & NEEDLE BEARINGS

Andhra Pradesh

Indo-Nippon Precision Bearings Ltd., Moula Ali, Hyderabad 500001.

Delhi

Hind Electronic Ind., 69, Najafgarh Rd., New Delhi 110015.

Gujarat

Precision Bearings India Ltd., P.O. Maneja, Via Vadodara R.M.S., Dist Vadodara.

Suessen Textile Bearings Ltd., Near Makarpura, Vadodara 390001.

Maharashtra

Antifriction Bearings Corpn. Ltd., Kakkad Chambers, 132, A. Besant Rd., Bombay 400018.

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Gleitlager (India) Pvt. Ltd., Manu Mansion, 16, Old Custom House Rd., Bombay 400001.

Needle Roller Bearing Co. Ltd., B-16, Road No. 2, Waglewadi (Ind. Area), Thana 400604.

New Haven Steel Ball Corpn. Pvt. Ltd., Pandyan House, Frere Rd., Bombay 400001.

Universal Bearings Co. Pvt. Ltd., 11, Temple View, Hughes Rd., Bombay 400007.

Mysore

Rollon Bearings Pvt. Ltd., 73/18 J. C. Rd., Reddy Bldg., Bangalore 560002.

Rajasthan

National Engineering Ind. Ltd., Jaipur 302001.

Tamil Nadu

Coimbatore Pioneer Engg. Co. Ltd., Pioneer Mills Rd., Coimbatore 641001.

Upper India Bearings Pvt. Ltd., A-23, Ind. Estate, Madras 600032.

West Bengal

Ambica Mill Stores, 138, Canning St., Calcutta 700001.

Damain Enterprises, 138, Canning St., Calcutta 700001.

Shriram Bearings Ltd., 3A, Shakespeare Sarani, Calcutta 700016.

BARRELS, BUCKETS DRUMS & STEEL CONTAINERS

Andhra Pradesh

Charminar Drums & Containers Manufg. Co., 402, Begum Bazar, Hyderabad 500012.
Hyderabad Tin Products Ltd., Mushirabad, Hyderabad 500020.

Bihar

Metal Press Works Ltd., Sahibganj.

Delhi

Kumar Bros. Sheet Metal Works, Bahadurgarh Rd., Delhi 110006.
Sheet Metal Co. of India, 62, Najafgarh Rd., New Delhi 110015.

Gujarat

Apurva Containers Pvt. Ltd., Navbharat Mills Compound, Narada Rd., Ahmedabad 380002.
Baroda Containers Pvt. Ltd., R.C. Rd., Vadodara 390001.
Kathiawar Metal Tin Works Ltd., Near Lati Plot, Rajkot 360001.

Kerala

Cochin Metal & Galvanisers Ltd., Patchalon, Ernakulam 682001.

Maharashtra

Asnew Drums Pvt. Ltd., Nagindas Chambers, P. d'Mello Rd., Bombay 400001.
Bharat Barrel & Drum Manufg. Co. Pvt. Ltd., Fergusson Rd., Bombay 400013.
Bhoruka Drum & Allied Ind. Pvt. Ltd., 11-B, Wagle Estate, Thana 400601.
Bombay Drums Manufrs., Safia Manzil, 24, Calicut St., Bombay 400001.
Can Manufg. Co. Pvt. Ltd., Ind. Estate, Kandivli, Bombay 400067.
Diamond Drum & Bucket Factory, 168, Bapty Rd., Two Tanks, Bombay 400008.
Hindustan Sheet Metal Works, 41-A, Dr. E. Moses Rd., Worli, Bombay 400018.
Hydro (Engineers) Pvt. Ltd., 19, Matharpakkhadi Rd., Bombay 400010.
Indian Metal Can Manufrs. Pvt. Ltd., 43-F, Foras Rd., Bombay 400008.
Jetha Drums & Containers Pvt. Ltd., Opp. Byculla Goods Depot, Bombay 400027.
Keena Barrels Manufg. Co. Pvt. Ltd., 92 Raviwar Peth, Pune 411002.
Poysha Ind. Co. Ltd., Messent Rd., Bombay 400033.
Raj Bucket Factory, 58B, M. Azad Rd., Rangwala Compound, Bombay 400011.
Saiju Bucket Factory Pvt. Ltd., 37, Sankli St., Bombay 400008.
Tayabi Bucket Factory, 174/178, Janjikar St., Bombay 400003.
Steel Containers Ltd., 149, Jackeria Bazar Rd., Bombay 400015.
Union Steel Ind. Hadapsar Ind. Estate, Pune 411013.

Mysore

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Punjab

Aminchand Bholanath, Tanda Rd., Jullundur 144001.
Watkins Mayor & Co., Empress Garden Rd., Jullundur 144001.

Tamil Nadu

Can Manufg. Co., 295, T. H. Rd., Madras 600021.
Chitram & Co. Pvt. Ltd., Royapuram, Madras 600013.
Madras Metal Can Manufrs., C-21-A, Ind. Estate, Madras 600058.

Uttar Pradesh

Metal Press Works Ltd., Freeganj, Agra 282001.
Northern India Iron Press Works, Aishbagh, Lucknow 226001.

West Bengal

Associated Metal Ind. of India Ltd., 16, Mangoe Lane, Calcutta 700001.
Bengal Ind., 23A, N. Subash Rd., Calcutta 700001.
Bharat Barrel & Drum Manufg. Co., 2, Garstin Place, Calcutta 700001.
Bharat Steel Metal Ind. Ltd., 36 A & B, Pratapaditya Rd., Calcutta 700026.
Containers & Closures Ltd., 4, Fairlie Place, Calcutta 700001.
Containers (India) Ltd., 18, C. C. Ghosh Rd., Balgachia, Calcutta 700037.
Dhur Galvanizing Works (1955) Pvt. Ltd., 92, Ultadanga Main Rd., Calcutta 700004.

Economic Tanks Supply Co., 100, M. Gandhi Rd., Calcutta 700007.

Goodman & Co. (India) Pvt. Ltd., 38, N. Subash Rd., Calcutta 700001.

Hind Galvanising & Engg. Co. (Pvt.) Ltd., 96, Garden Reach Rd., Calcutta 700023.

India Can (Pvt.) Ltd., 6, Middleton St., Calcutta 700014.

Industrial Containers Ltd., P. 4/1, Oil Installation Rd., Calcutta 700013.

Laxmi Trdg. Co., 192, J. Bajaj St., Calcutta 700007.

M. L. Day & Co., 57-B, Chittaranjan Ave., Calcutta 700012.

Metal Press Works Ltd., Victoria Rd., Barrangore, Calcutta 700036.

Roy-Singha Engg. Works, 639, Diamond Harbour Rd., Behala, Calcutta 700034.

BATTERIES, DRY CELL

Maharashtra

Estrella Batteries Ltd., Yusuf Bldg., V. Nariman Rd., Bombay 400001.

Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.

Mysore

Amco Batteries Ltd., Unity Bldgs., Narasimharaja Square, Bangalore 560002.

Tamil Nadu

Indo National Ltd., 30, General Patter's Rd., Madras 600002.

Uttar Pradesh

Geep Flashlight Ind. Ltd., 28, South Rd., Allahabad 211001.

West Bengal

Associated Battery Makers Eastern Ltd., 59 C, Chowringhee, Calcutta 700020.

Flash Lights India Pvt. Ltd., 135, Princep St., Calcutta 700001.

Graphite India Ltd., 14, N. Subash Rd., Calcutta 700001.

National Carbon Co. India Ltd., 18 A, Brabourne Rd., Calcutta 700001.

Saxby Farmer India Pvt. Ltd., Entally, Calcutta 700014.

Union Carbide India Ltd., 1-3, Brabourne Rd., Calcutta 700001.

BATTERIES, STORAGE

Andhra Pradesh

Auto Globe Batteries, Old Malkapet, Hyderabad 500001.

Bihar

Bihar Storage Battery Co., Station Rd., Ranchi 834001.

Delhi

Acme Batteries Pvt. Ltd., Grand Trunk Rd., Delhi-110032.

Battery Seperators Pvt. Ltd., 1671, Kashmere Gate, Delhi 110006.

Globe Engg. Corpn., 2547, Rajguru Rd., Pahar Ganj, New Delhi 110055.

India Battery Separators Co., Pataudi House, Delhi 110006.

Leela Seperators Pvt. Ltd., 153, Ind. Estate, New Delhi 110020.

Sahni Bros. (India), H/34, Connaught Circus, New Delhi 110001.

Spartan Batteries, 1651, S. P. Mukherji Marg, Delhi 110006.

Super Batteries, 2291/16, Arya Samaj Rd., Karol Bagh, New Delhi 110005.

Gujarat

Abdul Samad Abdul Kader & Co., Kalupur, Ahmedabad 380001.

Anand Engg. Works, 2, Kevdawadi, Rajkot 360001.

Autobat Batteries Pvt. Ltd., Ratan Talao, Nadiad 387001.

Bansi Ind. Corpn., Raghunathpura, Surat 395001.

Everest Ind. Corpn. Pvt. Ltd., Pratapnagar, Vadodara 390001.

Jyoti Ltd., Chemical Ind., P.O. Vadodara 390001.

Navinchandra Engg. Works, 44, Bharatkhand Cotton Mills Comp., Naroda Rd., Ahmedabad 380009.

Haryana

Amar Batteries India Ltd., Ind. Area, Faridabad 121001.

Maharashtra

Bower Battery Manufg. Co. Pvt. Ltd., 54, S. Vivekanand Rd., Goregaon, Bombay 400062.

Estrella Batteries Ltd., Plot No. 1, Dharavi Rd., Matunga, Bombay 400019.

Excel Battery Ind., Sonawala Cross Rd., Bombay 400063.

Himco India Pvt. Ltd., Kondivitta, Kurla Rd., Bombay 400069.

Lucas Indian Service Pvt. Ltd., 15, New Queen's Rd., Bombay 400004.

Premier Auto Electric Pvt., Ltd., 69, Tardeo Rd., Bombay 400034.

Rita Battery Manufg. Co., Deccan Gym., Pune 411004.

Ruby Battery Corpn. Pvt. Ltd., 31, French Rd., Chowpatty, Bombay 400007.

Shakti Batteries, 95, D. S. Phalke Rd., Dadar, Bombay 400014.

The Standard Batteries Ltd., Vakola, Santa Cruz East, Bombay 400055.

Sunlite Batteries & Carbons Ltd., 12, Champa Gully Cross Lane, Mulji Jetha Bldg., Bombay 400002.

Super Power Batteries India Pvt. Ltd., New Queen's Rd., Bombay 400004.

Union Battery Corpn., 10, Naval Kunj, Agra Road, Bombay 400077.

Western Battery Corpn., 108, Bazar Ward, Kurla, Bombay 400070.

Winner Batteries, 7, Udyog Nagar, S. Vivekanand Rd., Goregaon West, Bombay 400062.

Zenith Batteries Manufg. Co., 1204, Nanapeth, Pune 411002.

Mysore

Amco Batteries Ltd., Unity Bldgs., Narasimharaja Sq., Bangalore 560002.

Mysore Electro Chemical Works Ltd., 6th Cross Rd., Bangalore 560022.

Orissa

Spark Battery Manufg. Co. Ltd., Ind. Estate, Cuttack 753001.

Punjab

Decro Batteries, Hospital Rd., Jullundur 144001.

Rajasthan

Everlast Battery Manufg. Co., Imperial Rd., Ajmer 305001.

Tamil Nadu

Himco Batteries Madras Pvt. Ltd., 144, Mount Rd., Madras 600002.
Oldham & Sons Ltd., Saidapet, Madras 600001.

Uttar Pradesh

King Battery Works, 119, Grand Trunk Rd., Kanpur 208001.
Lava Batteries, 37, Ind. Estate, Kanpur 208001.

West Bengal

Accurate Power Ind., 3/1A, Barrackpore Trunk Rd., Calcutta 700002.
Associated Battery Makers Eastern Pvt. Ltd., 59 C, Chowringhee Rd., Calcutta 700001.
Battery Manufg. Cartel, 468, Calcutta Jessore Rd., Calcutta 700028.
Bharat Battery Manufg. Co. Pvt. Ltd., 238A, Acharya J. C. Bose Rd., Calcutta 700020.
Calcutta Storage Battery Co. Pvt. Ltd., P-1-A, Rashbehari Ave., Calcutta 700001.
Chloride India Ltd., Exide House, 59E, Chowringhee Rd., Calcutta 700020.
Desapriya Auto Works, 115, Bidhan Sarani, Calcutta 700004.
Electrical Storage Co. Pvt. Ltd., Narkelranga Main Rd., Calcutta 700001.
Eastern Battery Ind., 1-B-Paul St., Calcutta 700004.
General Lead Batteries Co. Pvt., 9-A, R. Mitra Lane, Calcutta 700004.
Oriental Battery Manufg. Co., Grand Trunk Rd., South Howrah 711101.
P. Kishore & Co., 132, Lenin Sarani, Calcutta 700013.
Resco Storage Batteries, 7-1, Sastitola Rd., Calcutta, 700001.
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Hindustan Vehicles Ltd., Hasan Imam Rd., Patna 800001.

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A. K. Cycle Ind., Dilshad Garden, Delhi 110032.
Hitkari Bros. of Delhi, 9, Faiz Bazar, Delhi 110006.
H. R. Bhalla & Sons Pvt. Ltd., 3, Faiz Bazar, Delhi 110006.
Imperial Technical Works, K78 Hauz Khas, Delhi 110016.
Jai Bharat Engg. Co-op. Ind. Society Ltd., 29-15, New Rohtak Rd., New Delhi 110005.
Matchless Ind. of India, 8-A, Esplanade Rd., Delhi 110006.
New Era Engg. Co., 26, D.L.F. Ind. Colony, New Delhi 110015.
Pearl Cycle Ind. Ltd., N.D.S.E. Part I, New Delhi 110049.
Raj Cycle Works, 16-2044, Gurudwara Rd., New Delhi 110005.
Road King Cycle Co., 47-A, Esplanade Rd., Delhi 110006.
Road King Cycle Ind., 17-9, New Rohtak Rd., New Delhi 110005.
Uttam Cycle Works, 408, Esplanade Rd., Delhi 110006.
Zenith Cycle Ind., 9, N. S. Marg, Delhi 110006.

Haryana

Wearwell Cycle Co. (I.) Ltd., Wearwell Works, Faridabad.

Kerala

Bharat Cycle Ind., Vadakevilla, Quilon 691001.

Madhya Pradesh

Central Cycle Ind., Bhagirathpura, Indore 452001.

Maharashtra

Commercial Engg. Works, Ghat Rd., Nagpur 440001.
Hind Cycles Ltd., Worli, Bombay 400018.
M. D. Cycle Ind. Pvt. Ltd., 69/B Hadapsar Ind. Estate, Pune 411013.
Saaza Bicycle Ind. (I.) Ltd., Camp, Amravati 444601.

Orissa

Utkal Cycle Manufg. Co. Pvt. Ltd., B-5, Ind. Estate, Cuttack 753001.

Punjab

Anand Rubber & Cycle Ind., Anand Bldg., Kapurthala 144601.
Asian Cycle Ind., Millerganj, Ludhiana 144001.
Atlas Cycle Ind. Ltd., Sonepat 131001.
Avon Cycles Ltd., Ind. Area, Ludhiana 141001.
Bicycle Manufg. Co-op. Ind. Society Ltd., Ludhiana 141001.
Chawla Cycle Ind., Railway Rd., Jullundur 141001.

Hero Cycle Ind., Millerganj, Ludhiana 141001.
Nilibar Cycle Ind., Millerganj, Ludhiana 141001.
Road Master Ind. of India Ltd., Rajpura.
Rockman Cycle Ind., 730, Ind. Area-B, Ludhiana 141001.
Super Cycle & Allied Ind., 3, Gill Rd., Ludhiana 141001.
Vishwa Karma Mechanical Engg. Foundry, Phagwara.

Rajasthan

Chandra Ind., 86, Gopal Bari, Jaipur 302001.

Tamil Nadu

Govt. Cycle Assembly Unit, Thanjavoor 613001.
Rajasekar Ind., C-46, Ind. Estate, Madras 600032.
Rapid Ind., Rapidnagar, Kovvur.
T. I. Cycles of India Ltd., 11-12, North Beach Rd., Madras 600001.

Uttar Pradesh

Continental Cycle Ind., 40, D. S. Marg, Lucknow 226001.
Eastern Cycle Ind., 42, Ind. Estate, Kanpur 208001.
Gopal Metal Works, Aish Bagh Rd., Lucknow 226001.
Metal Goods Manufg. Co. Pvt. Ltd., Vidyapith Rd., Varanasi 221001.
Pioneer Ind., Alopibagh, Allahabad 211001.
Popular Cycle Manufg. Co. Pvt. Ltd., Bodla, Agra 282001.
Prakash Engg. Co., Aishbagh, Lucknow 226001.
Rampur Engg. Co. Ltd., Rampur 244901.
Steel Sons Pvt. Ltd., Govindpuri, Modinagar.

West Bengal

B. S. Cycle Ind., K. Bhattacharjee Lane, Santragachi, Howrah 711101.
Eagle Cycles Ltd., 3, New Tangra Rd., Calcutta 700015.
International Engg. Co., 17, R. A. Kidwai Rd., Calcutta 700013.
Jodhpur Engg. Works, R. N. Das Rd., Calcutta.
Sen-Raleigh Ind. of India Ltd., Mercantile Bldg., Lalbazar St., Calcutta 700001.

BICYCLE ACCESSORIES & PARTS

Andhra Pradesh

Deccan Cycle & Allied Ind., 720 Bank St., Hyderabad 500001.
Delhi Farm & Tricycle Manufg. Co., 14, Begum Bazar, Hyderabad 500001.
Government Bicycle Parts Factory, Ind. Estate, Vijayawada 520001.

Delhi

Balkan Ind. India Ltd., Esplanade Rd., Delhi 110006.
Cycle Equipment Pvt. Ltd., 8, Kalkaji, New Delhi 110019.
Freewheels India Ltd., New Asiatic Bldg., Connaught Circus, New Delhi 110001.
Hansraj Gupta & Co. Pvt. Ltd., Ajmeri Gate, Delhi 110006.
Hindustan Cycle Accessories Manufg. Co., Rampura Rd., P.O. Ganeshpura, Delhi 110033.
Laldee Pvt. Ltd., Vijay Press Bldg., Naya Bazar, Delhi 110006.
Margo Ind. India, Old Rohtak Rd., New Delhi 110005.
Pearl Cycle Ind. Ltd., Kashmere Gate, Delhi 110006.
Pearl Roller Chain Manufg. Co., Najafgarh Rd., New Delhi 110015.
Racmann Koshatkinn (Regd.), 53, Ind. Area, Najafgarh Rd., New Delhi 110015.
Reliance Cycle Works Pvt. Ltd., 36, Okhla Ind. Area, New Delhi 110020.
Road Master Ind. of India Pvt. Ltd., 2, Flagstaff Rd., Delhi 110006.

Gujarat

Ahmedabad Star Engg. Works Pvt. Ltd., 1730, Haribhai Dehla, Outside Premgate, Ahmedabad 380011.
Bicycle Manufg. Ind. Pvt. Ltd., Ind. Area, Vadodara 390001.

Haryana

Atlas Cycle Ind. Ltd., Sonepat 131 001.
Forgings Pvt. Ltd., Mathura Rd., Faridabad 121 001.
Janata Cycle Ind., Ind. Area, Panipat 132 103.
Milton Cycle Ind. Ltd., 2/114, Jeewan Nagar, Sonepat 131 001.
Packson Freewheels India Ltd., Faridabad 121 001.
Villers Freewheel Licence India Ltd., Faridabad 121 001.

Kerala

Alleppey Cycle Manufg. Workers Ind. Co-op. Society Ltd., Alleppy 688001.
Kerala Govt. Cycle Rim Factory, Sankumugham, Trivandrum 695001.
Venu Engg. & Foundry Pvt. Ltd., Nemom, Trivandrum 695001.

Madhya Pradesh

Govt. Cycle Factory, Guna 473001.
Road Star Cycle Ind., Jawahar Nagar, Gwalior 474001.

Maharashtra

Delta Spokes Manufg. Co., Dharamchand Ind. Estate, Deonar, Bombay 400088.
Hamilton Ind. Pvt. Ltd., Tulsi Pipe Rd., Bombay 400013.
Hind Cycles Ltd., Worli, Bombay 400018.
Lumala Ind. Pvt. Ltd., Prasad Chambers, Opera House, Bombay 400004.
M. D. Cycle Ind. Pvt. Ltd., 69-B, Hadapsar Ind. Estate, Pune 411013.
New Haven Steel Ball Corpn. Pvt. Ltd., Randyan Bldg., Frere Rd., Bombay 400001.
Simetalls Pvt. Ltd., Govt. Gate Rd., Bombay 400012.
Transmission Pvt. Ltd., Bhandup, Bombay 400078.

Punjab

Aasvan Cycle Ind., Ind. Area, Jullundur 144001.
Arun Ind. Ltd., State Bank Colony, Amritsar 143001.
B. S. C. Cycles Pvt. Ltd., 12-R, Ind. Area, Ludhiana 141001.
Birdi Bros., 447, Ind. Area-B, Ludhiana 141001.
Delco Engg. Works, 193, Ind. Area B, Ludhiana 141001.
Freedom Ind., Hide Market, Amritsar 143001.
J. P. Cycle Ind., Millargunj, Ludhiana 141001.
Jaibharat Cycle Ind., Circular Rd., Jullundur 144001.
Loomba Cycle Works, 190, Ind. Area B., Ludhiana 141001.
Public Cycle Works, 1, Millergunj, Ludhiana 141001.
Ralson Ind., 810, Ind. Area B, Ludhiana 141001.
Steelco Ind., Tanda Rd., Jullundur 144001.

Tamil Nadu

Associated Engg. Enterprises, A-1, Ind. Estate, Madras 600058.
L. G. Balkrishna & Bros., Pvt. Ltd., India House, Trichy Rd., Coimbatore 641001.
Pioneer Cycle Ind. India Pvt. Ltd., Tiruvottiyur High Rd., Madras 600019.
Pondy Cycle Parts Manufrs. Pondicherry 605001.
T. I. Miller Ltd., Ambattur, Madras 600058.
Tube Investments of India Ltd., 11, North Beach Rd., Madras 600001.
Wheel Rim Co. of India Pvt. Ltd., Sembiam, Madras 600011.

Uttar Pradesh

Agarwal Cycle Rickshaw Manufg. Co., Motikatra, Agra 282001.
Bharat Ind. Corpn. Ltd., R. K. Nagar, Kanpur 208001.
Bright Cycle Ind., 78B, G. B. Marg, Lucknow 226001.
Metal Goods Manufg. Co. Pvt. Ltd., Vidyapeeth Rd., Varanasi 221001.
Navyug Cycle & Allied Ind., Grand Trunk Rd., Ghaziabad 201001.
Oakfield Cycle Ind., 39-11, Meston Rd., Kanpur 208001.
Speedage Cycle Components, 16, Ind. Estate, Kanpur 208001.

West Bengal

Ancillary Ind. Forgings Pvt. Ltd., Ind. Estate, Kalyani, 741235.
Bharat Cycle Manufg. Co., 18, R. M. Dutta Rd., Calcutta 700020.
Bicycle Components Pvt. Ltd., 11, Bediadanga Rd., Calcutta 700039.
Dwarka Ind. Development Pvt. Ltd., 14, Canal St., Calcutta 700014.
Eagle Cycles Ltd., 3, New Tangra Rd., Calcutta 700015.
Eagle Metal Products Pvt. Ltd., 83, Ballygunge Place, Calcutta 700029.
Hillman Ind. Pvt. Ltd., 3, Bentinck St., Calcutta 700001.
Indian Union Manufrs. Ltd., 190, Rashbehari Ave., Calcutta 700020.
Indo-Japanese Ind. Ltd., 14, Canal St., Calcutta 700014.
Polymold Pvt. Ltd., Ind. Estate, Kalyani 741235.
R. K. Cycle Ind. Pvt. Ltd., 80, Lower Circular Rd., Calcutta 700014.
Republic Engg. Corpn. Ltd., 16, B. C. Roy Rd., Calcutta 700034.
Sen & Pandit Ltd., Mercantile Bldg., Lalbazar, Calcutta 700001.
Sen Raleigh Ind. of India Ltd., Mercantile Bldg., Lalbazar, Calcutta 700001.

BIDIS

Andhra Pradesh

Engine Mark Bidi Factory, Sitaphal Mandi, Hyderabad 500001.
Heeralal Prabhuram Beedi Factory, Gajulpet, Nizamabad 503001.
Kohinoor & Dunia Beedi Factory, R. N. Road, Hyderabad 500002.
Shashi Beedi Factory, Dichpalli, Nizamabad Dist.
Tara Mark Beedi Factory, Uthkoor, Mahbubnagar Dist.
Thakur Savadekar & Co., Beedi Factory, Nizamabad 503001.
Watch Mark Beedi Factory, Metpalli, Karimnagar Dist.
Wattan Mark Beedi Factory, Marthad, Nizamabad Dist.

Gujarat

Asal Phul Chhap Bidi Factory, Santh Pilli, Nadiad 384001.
Gordhandas Bidi Factory, Station Rd., Vadodara 390001.
Jethabhai Ambalal Vyas Bidi Factory, Umeta, Kaira Dist.
Karim Bidi Factory, Little Gate, Ahmedabad 380001.
Patel Umedbhai Mathurabhai Bidi Factory, Palej.
Ramniklal Jayantilal Gandhi, Station Rd., Thasra.
Shivaji Bidi Works, Borsad.
Thakkar Tarachand Dayal & Co., Bidi Factory, Patan.

Kerala

Cannanore Beedi Workers Ind. Co-op. Society Ltd., Madan Bldg., Gopal St., Cannanore 670001.
Kerala Beedi Factory, Chalakudy.
Mangalore Ganesh Beedi Works, Kakkat, Cannanore 670001.
M.S.M. Saliheen Sahib & Brothers, Koduvayur, Palghat 678001.
M. S. Photo Beedi Co., Ollur, Trichur 680001.
P.V.S. Beedies Ltd., Cannanore 670001.
Ring Mark Beedi Co., Main Rd., Ottapalam 679101.
Salim Darbar Beedi Factory, Chalakudy.
Union Beedi Factory, Mananghat, Palghat 678001.

Madhya Pradesh

Aulia Beedi Factory, Burhanpur.
Badshahi Bidi Works, Modai Bhata, M. Gandhi Rd., Raipur 492001.
Bhimraj Sunderlal Bidi Factory, Kanker, Bastar.
Chunilal Chedilal Kanthal Bidi Factory, Narsingpur.
C. J. Patel & Co., Bidi Factory, Karrapur, Sagar Dist.
Jaswantlal Prahladbhai & Co., Bidi Factory, Hindor, Damoh 470661.
Jordan Bidi Factory Khargone 451001.
Kishorilal Roshanlal Bidi Factory, Kharsia, Raigarh 496001.
Maganlal Dajibhai Bidi Factory, Bagera, Raigarh 496001.
Mohanlal Hargovindas Bidi Factory, Maihar, Satna Dist.
Mohanlal Harprasad Agarwal Bidi Factory, Shahadol 489001.
P. D. & Co., Bidi Factory, Kankar, Bastar.
Prabhulal Patiram & Co., Bidi Factory, Gole Bazar, Raipur 492001.
Thakur Savadekar Bidi Factory, Ajhas.
Tulsibhai Govardhanbhai Beedi Factory, Rewa 486001.
Udhavji Shri Krishandas Bidi Factory, Rewa 486001.
Vrajlal Manilal & Co., Bidi Factory, Rajnandgaon.

Maharashtra

Bastiram Narayandas Maheshri Bidi Factory, Mangalpur, Sangamner, Ahmednagar Dist.
Bhikusa Co., M. Gandhi Rd., Dhulia 424001.
Bhikusa Yamasa Kshatriya Pvt. Ltd., 42, Guruwar Peth, Pune 411002.
Budhmal Ratanlal Taki Bidi Factory, Pokhari, Ahmednagar Dist.
Camel Brand Bidi Factory, No. 1560 Sinnar, Nasik 422001.

Chandratara Bidi Works, 7/8, Bhudhwar, Sholapur 413001.
Charaka Chhap Bidi Factory, Nandgaon, Nasik Dist.
Charbhai Bidi Works, 570, Sachapir St., Pune 411001.
Chhokra Chhap Bidi Works, 3587, Raul Gali, Sholapur 413001.
Cock Brand Bidi Factory, 5160/61, Mangalwar Peth, Ahmednagar 414001.
Jaiprakash Sudhir Pvt. Ltd., Bidi Factory, 3166, Bhagwanpura, Nasik 422001.
Karim Bidi Factory, House No. M-2, Dhulia 424001.
Lal Ghoda Bidi Works, 10, Murarji Peth, Sholapur 413001.
M. M. Pathan Bidi Factory, Newasa, Ahmednagar Dist. 414001.
Mukhtar Ahmed Mohammed Hanif Bidi Factory, Dhulia 424001.
Patel Bidi Works, 6-A, Bhawanipeth, Sholapur 413001.
Patel Brothers, 118, M. Gandhi Rd., Pune 411001.
Phono Bidi Factory, Sawada, Jalgaon Dist.
Rajanikant Chotalal Bidi Factory, Dharangaon, Jalgaon Dist.
Sable Waghire & Co., Bhawanipeth, Pune 411002.
Sambar Chhap Bidi Factory, Bazar Peth, Newasa, Ahmednagar Dist.
Sholapur Bidi Works, 305, Jodbhavi Peth, Sholapur 413001.
Thakur Savadekar & Co. Pvt. Ltd., 377, Guruwar Peth, Pune 411002.
Vishwanath Balwant Vaidya Bidi Factory, Akola, Ahmednagar Dist.
Yeola Bhandari Bidi Works, Sabreshwar Rd., Yeola, Nasik Dist.

Mysore State

Amrit Beedi Factory, Ranibennur, Dharwar Dist.
Bharat Beedi Works, Karkal, S. Kanara Dist.
Bharatmatha Beedi Factory, Ranenpur, Hubli 580020.
Chand Tara Beedi Factory, Yadgir, Gulbarga Dist.
Darbar Beedi Factory, Dalalpeth, Nipani, Belgaum Dist.
Elephant Circus Beedi Factory, Alampur, Raichur Dist.
Engine Mark Beedi Factory, Yadgir, Gulbarga Dist.
Kasim Ali Beedi Factory, Gulbarga 585101.
Malabar Krishna Beedi Factory, Tumkur 572101.
Mangalore Ganesh Beedi Works, Hampankatta, Mangalore 575001.
Mohini Beedi Works, Udipi, S. Kanara Dist.
Prakash Beedi Works, Car St., Mangalore 575001.
P.V.S. Beedi Ltd., Kodialbail, Mangalore 575003.
Thakur Savadekar & Co. Pvt. Ltd., Gulbarga 585101.
Vazir Sultan Tobacco Co. Ltd., Alampur, Raichur Dist.

Orissa

Babaji & Motibhai Bidi Factory, Bhalupari, Sambalpur Dist.
Bengali Bidi Works, Bhalkunda, Sason, Sambhalpur Dist.
Bidi Trading Co., Ainathpali, Sambalpur 768001.
Deshbandhu Bidi Karkhana, Phatak, Sambalpur 768001.
Hindustan Bidi Works, Nayapara, Sambalpur 768001.
Mangal Bidi Works, Coly Para, Jharsuguda, Sambalpur Dist.
Saheb Bidi Factory, Padampur, Selepur, Cuttack Dist.
Temple Bidi Workshop, Marwaripara, Sambalpur Dist.

BISCUITS

Andhra Pradesh

J. B. Mangharam & Co., Tank Bund, Hyderabad 500001.
Shalimar Biscuits Pvt. Ltd., Ind. Estate, Uppal, Hyderabad 500039.

Bihar

Lucky Biscuit Co., Hajiganj, Patna 800001.

Delhi

Britannia Biscuit Co. Ltd., 33, Lawrence Rd., Delhi 110035.

Kerala

Travancore Rayons Ltd., P.O. Rayonpuram.

Madhya Pradesh

Arya Confectionery Works, 111, Ind. Estate, Indore 452003.
J. B. Mangharam & Co., Pvt. Ltd., P.O. Residency, Gwalior 474001.
Rashtriya Confectionery Works, D-48, Fort, Ind. Estate, Indore 452002.

Maharashtra

B. N. Biscuit & Confectionery Works, Hathibaugh, Love Lane, Mazagon, Bombay 400010.
Britannia Biscuit Co. Ltd., Reay Rd., East, Mazagon, Bombay 400010.
Huns Dewan & Co., 158, M. Azad Rd., Bombay 400008.
Paper Products Ltd., Vaswani Mansion, 120, D. Vachha Rd., Bombay 400020.
Parle Products Pvt. Ltd., Belvandi House, 254-B, Dr. A. Besant Rd., Bombay 400025.
Renown Biscuit Co., Sussex Rd., Cross Lane, Byculla, Bombay 400027.
Sathe Biscuit & Chocolate Co. Ltd., 820, Bhawani Peth, Poona 411002.
Shalimar Biscuits Pvt. Ltd., Sun Mill Estate, Lower Parle, Bombay 400013.
Shangrila Food Products Ltd., 60, Great Social Bldg., Sir P. Mehta Rd., Bombay 400001.

Mysore

Azad Ind., Azad House, Jeppu, Mangalore 575001.
Mangharam & Sons, Tumkur Rd., Bangalore 560022.
National Products, 135, Kaval Byrasandra, Bangalore 560006.

Punjab

Dalima Biscuit Pvt. Ltd.. Rajpura.
Rieta Biscuit Co. Pvt. Ltd., Factory Area, Patiala 147001.

Tamil Nadu

Britannia Biscuit Co. Ltd., M.T.H. Rd., Padi, Madras 600050.
Dollar Food Corpn., 49, Kathirvedu Pozhal Post, Madras 600066.

Uttar Pradesh

Annapurna Biscuit Manufg. Co., 84/67, G. Trunk Rd., Kanpur.
Kaka Biscuits Manufg. Co., 108/131, Gopal Talkies, Sisamau Bazar, Kanpur 208001.
Sind Biscuits Manufg. Co., 104/A/333, Ram Bagh, Kanpur 208001.
Unichem Laboratories Ltd., C-32, Ind. Area, Meerut Rd., Ghaziabad 201001.

West Bengal

Britannia Biscuit Co. Ltd., 15, Taratola Rd., New Alipore, Calcutta 700053.
Kusum Products Ltd., Bombay Mutual Bldg., 9, Brabourne Rd., Calcutta 700001.
Lily Biscuit Co. Pvt. Ltd., 3, R. K. Sen Lane, Calcutta 700004.
Santosh Biscuit Co. Pvt. Ltd., 179A, Manicktola Main Rd., Calcutta 700054.

BOILERS

Andhra Pradesh

Bharat Heavy Plate & Vessels Ltd., Visakhapatnam 530001.

Bihar

Tata Engg. & Locomotive Co. Ltd., Jamshedpur 831001.

Gujarat

Maroden Spinning & Manufg. Co. (India) Ltd., Rakhial Rd., (Engg. Division), Ahmedabad 380021.
SLM-Maneklal Ind., Vatwa, Ahmedabad 380021.

Haryana

Saraswati Ind. Syndicate Ltd., Yamuna Nagar.

Maharashtra

Acme Engg. & Allied Products Pvt. Ltd., 3-15, V. Savarkar Marg, Bombay 400028.
B. R. Herman & Mohatta (India) Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.
Eastern Textiles, 75, Apollo St., Bombay 400001.
Industrial & Agricultural Engg. Co. (Bombay) Pvt. Ltd., 43, Forbes St., Bombay 400001.
ISGEC John Thompson Ltd., Great Social Bldg., Sir P. Mehta Rd., Bombay 400001.
Jignesh Metal Manufg. Co., Subash Nagar, Asain Chemical Compound, Jogeshwari (East), Bombay 400060.
Nestler Boilers Pvt. Ltd., Love Lane, Cross Lane, Byculla, Bombay 400027.
New Standard Engg. Co. Ltd., NSE Estate, Goregaon, (East), Bombay 400063.
Saurashtra Engg. Corpn. Pvt. Ltd., 106-7, Bazar Ward, Khetani Ind. Estate, Bombay 400070.
Shapuria Dock & Steel Pvt. Ltd., Sewree Fort Rd., Bombay 400015.
Shubh Engg. Corpn., 15, Bank St., Bombay 400001.
Steel Plant Pvt. Ltd., 205, Dr. A. Besant Rd., Bombay 400018.
Varsha Boilers Pvt. Ltd., Green House, Green St., Bombay 400001.
Walchandnagar Ind. Ltd., Walchandnagar, Poona Dist.
Wanson (India) Pvt. Ltd., Katrak Rd., Bombay 400031.
Westerwork Engrs. Pvt. Ltd., 15, Bhandup Village Rd., Bombay 400078.

Orissa

Utkal Machinery Ltd., Rourkela 769001.

Punjab

Leader Engg. Works, Ind. Area, Jullundur 144001.

Tamil Nadu

Jeeyer & Co., Trichy Rd., Coimbatore 641001.
K.C.P. Ltd., 38, Mount Rd., Madras 600006.

West Bengal

ACC-Vickers-Babcock Ltd., Durgapur-6.
Garden Reach Workshops Ltd., 43/46, Garden Reach Rd., Calcutta 700024.
J. Stone & Co. (India) Pvt. Ltd., 16, Tartolla Rd., Calcutta 700027.
Jessop & Co. Ltd., 63, N. Subash Rd., Calcutta 700001.
Mac Neill & Barry Ltd., 2, Fairlie Place, Calcutta 700001.
Marshall Sons & Co. (India) Ltd., 33, N. Subash Rd., Calcutta 700001.
Thapar Steinmuller Boiler Co. Ltd., 25, Brabourne Rd., Calcutta 700001.

BRIGHT STEEL

Delhi

H. R. Gupte Ind., 27/56, Punjabi Bagh, New Delhi 110026.

Gujarat

Precision Bright Steel Ind., 696, Reid Rd., Ahmedabad 380001.

Maharashtra

Akhandanand Engg. & Trdg. Co., Datta Mandir Rd., Off Bhandup Village, Bombay 400078.
B. P. Steel Ind. Pvt. Ltd., Mysore Chemical Comp., 39/44, Sion East, Bombay 400022.
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Pratap Bright Steels Pvt. Ltd., 51, Advent, 12A, Foreshore Rd., Bombay 400001.

Ram Engg. Works, 57, Second Bhoiwada, Bhuleshwar, Bombay 400002.

Shah Patel & Co., 111, Nagdevi St., Bombay 400003.

Mysore

Bipsi Blades & Turners Pvt. Ltd., 59, Ind. Suburb, Yeshwantpur, Bangalore 560022.

Punjab

Hindustan Steel Ind., Rakson House, 43-R, Ind. Area B, Ludhiana 141001.

West Bengal

Bhartia Commercial Co. Ltd., B-1, Gillanders House, 8, N. Subash Rd., Calcutta 700001.

Bagri Steel Ind. (Pvt.) Ltd., 138, B. R. B. Basu Rd., Calcutta 700001.

Damehra Steels & Forgings Pvt. Ltd., 89, N. Subash Rd., Calcutta 700001.

Guest Keen Williams Ltd., 97, Andul Rd., Howrah 711003.

Prakash Steel Products, 234, G. Trunk Rd., (North) Howrah 711007.

BUS-TRUCK BODY BUILDERS

Andhra Pradesh

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

Shri Ramdas Motor Transport Pvt. Ltd., Subash Rd., Kakinada 533001.

Bihar

Tata Engg. & Loco. Co. Ltd., Jamshedpur 831001.

Delhi

Anand Automobiles, P. O. Usuf Sarai, New Delhi 110016.

Maharashtra

India Body Builders, 62, B. Shanker Cross Rd., Bombay 400054.

Jayanand Khira & Co. Pvt. Ltd., S. Vivekanand Rd., Bombay 400054.

Mahindra & Mahindra Ltd., Gateway Bldg., Apollo Bunder, Bombay 400001.

Ruby Coach Builders Pvt. Ltd., 75, Dr. A. Besant Rd., Bombay 400018.

Mysore

Canara Workshops Ltd., Kodiabad, Mangalore 575001.

M. G. Automobiles, Patelnagar, Bellary 583101.

Rajasthan

Kamal & Co., Ismail Rd., Jaipur 302001.

Tamil Nadu

Kutty & Rao (Engrs.) Ltd., Rustom Mahal, 2nd Line Beach, Madras 600001.

L. G. Balkrishnan & Bros. Pvt. Ltd., P.O. Ganapathy, Coimbatore 641001.

Simpson & Co. Ltd., 202, Mount Rd., Madras 600002.

Sundaram Ind. Pvt. Ltd., Ind. Estate, Madurai 625001.

West Bengal

Chopra Motors, 139, Regent Park, Calcutta 700040.

French Motor Car Co. Ltd., 234/3, L. Circular Rd., Calcutta 700020.

Commercial Vehicles

Ashok Leyland Ltd., Ennore, Madras 600019.

Bajaj Tempo Ltd., Chinchwad, Pune 411019.

Heavy Vehicles Factory, Kanpur 208001.

Hindustan Motors Ltd., 15, India Exchange Place, Calcutta 700001.

Mahindra & Mahindra Ltd., Gateway Bldg., Apollo Bunder, Bombay 400001.

Premier Automobiles Ltd., Agra Rd., Kurla, Bombay 400070.

Tata Engg. & Loco. Co. Ltd., 24, Bruce St., Bombay 400001.

Motor Cycles

Enfield India Ltd., Ennore, Madras 600019.

Escorts Ltd., Pratap Bldg., Connaught Place, New Delhi 110001.

Ideal Jawa India Pvt., Ltd., 7, Ind. Estate, Mysore 570002.

Scooters

Automobile Products of India Ltd., Bhandup, Bombay 400078.

Bajaj Auto Ltd., Chinchwad, Pune 411019.

Bharat Scooter Manufg. Co. Pvt. Ltd., Iftikar Mansions, Hyderabad 500020.

Enfield India Ltd., Ennore, Madras 600019.

Escorts Ltd., Pratap Bldg., Connaught Circus, New Delhi 110001.

Ideal Jawa India Pvt. Ltd., Ind. Estate, Mysore 570002.

Pearl Scooters, Grand Trunk Rd., Ludhiana 141001.

Side-Cars For Scooters & M. Cycles

The Globe Stores Co., Sitaram Bldg., Near Crawford Market, Dr. D. Naoroji Rd., Bombay 400001.

Three Wheelers

Bajaj Auto Ltd., Chinchwad, Pune 411019.

Enfield India Ltd., Ennore, Madras 600019.

Veegal Engines & Engg. Ltd., 31, Chittaranjan Ave., Calcutta 700001.

CARDBOARD BOX MANUFACTURERS

Ads & Prints (1963), 5, M. Chatterjee Lane, Calcutta 700007.

Antool, S. & Co. Pvt. Ltd., 91, Acharya P. Chandra Rd., Calcutta 700009.

Arun Corrugating & Packaging Ind., 36, Brabourne Rd., Calcutta 700001.

Associated Packaging Ind., 37, Canning St., Calcutta 700001.
Bengal Paper Tube & Box Manufg. Co., 18, Park St., Calcutta 700016.
Board & Paper Converters, 152/6, Salkia School Rd., Howrah.
British Packaging Ind., 3, Portuguese Church St., Calcutta 700001.
Calcutta Paper Ind., 121, Chittaranjan Ave., Calcutta 700007.
Cardboard Materials & Printing Co. Pvt. Ltd., 7, Convent Rd., Calcutta 700014.
Cardboard & Paper Products Co., 44, Lockgate Rd., Calcutta 700002.
Central Card Board Box Manufg., Co., 25, Dr. K. Bose St., Calcutta 700009.
Central Trdg. Co., 25, Waterloo St., Calcutta 700001.
Great Bengal Card Board, 40/B, J. Mitra St., Calcutta 700005.
Impex Corpn., 23/J, R. M. Dutta Garden Lane, Calcutta 700010.
Kajaria Chemipaper Pvt. Ltd., 28, Amratolla St., Calcutta 700001.
Krishna Cardboard Box Manufg. Co., 58, S. Sarkar Rd., Calcutta 700010.
Leonard Card-Board Box Factory Pvt. Ltd., 1/1, Galiff St., Calcutta 700003.
Packaging & Printing Ind., 1, British Indian St., Calcutta 700001.
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Technocrafts (India), 56, N. Subash Rd., Calcutta 700001.
Traders Syndicate, 58/1, M. Raja Dinendra St., Calcutta 700006.
Union Packaging Ind., 5, Burroshibtolla Main Rd., Calcutta 700038.
Universal Cardboard Box Factory, 54, Ezra St., Calcutta 700001.

CEMENT PRODUCTS

Andhra Pradesh

Allied Ind., 1-8-582, Ind. Area, Azamabad, Hyderabad 500020.

Delhi

Asbestos Cement Ltd., 41-A, Friends Colony (East), New Delhi 110014.
Hindustan Prestressed Concrete Structures Pvt. Ltd., B-6, A. Ali Rd., New Delhi 110001.
Indian Hume Pipe Co. Ltd., 71/6, Najafgarh Rd., New Delhi 110015.

Gujarat

Arcoy Ind. 137, New Cloth Market, Ahmedabad 380002.
Emco Tiles & Pipe Co., Panchkuva Rd., Khadia, Ahmedabad 380001.
Gujarat Cement Pipe Co., Shah-Alam Rd., Near Sawminarayan College, Ahmedabad 380022.

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Spunpipe & Const. Co., (Baroda) Pvt. Ltd., Vraj-Vihar, Near Arunodaya Society, Faramji Rd., Vadodara 390005.

Vallabhnagar Cement Products, 1669 Khadia, Ahmedabad 380001.

Maharashtra

Devi Ind., 1271, Opp. D. G. Post Office, Pune 411004.

ESCO (Poona) Pvt. Ltd., 2432, East St., Pune 411001.

Freyssinet Prestressed Concrete Co. Ltd., Hamilton House, Graham Rd., Ballard Estate, Bombay 400001.

Maharashtra Spun Pipe Ind. Pvt. Ltd., 96 M.I.D.C., Poona-Nasik Rd., Bhosari, Pune, 411026.

National Tiles & Ind. Pvt. Ltd., 31, Hamam St., Bombay 400001.

Precast Prestressed Concrete Products, 72-76, Mundhwa, Pune 411001.

Siporex India Ltd., 72-76, Ind. Estate, Mundhwa, Pune 411001.

Shetty Chemical & Engg. Works Pvt. Ltd., 43, Tamarind St., Bombay 400001.

Stocrete Ind. 413, Commerce House, Medows St., Bombay 400001.

Tamil Nadu

Dalmia International, 29, Ind. Estate, Ambattur, Madras 600058.

West Bengal

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Secretary : Mr. H. D. Unwala.

Sarbamangala Manufg. Co., 31, College St., Calcutta 700012.

CERAMICS AND POTTERIES

Andhra Pradesh

Associated Glass Ind. Ltd., 1-10-63-64 Rockland, Begumpet, Hyderabad 500016.

Mahalaxmi Glass Works Pvt. Ltd., P.O. Sanatnagar, Hyderabad 500018.

Micro Ceramics Pvt. Ltd., A-8, Co-operative Ind. Estate, Balanagar, Hyderabad 500037.

Sri Bala Krishna Tile Factory, Ayyakannu St., Palmaner, Chittor Dist.

Bihar

Bihar Firebricks & Potteries Ltd., P.O. Mugma, Dhanbad Dist.

Bengal Bihar Firebricks & Pottery Works Pvt. Ltd., P.O. Mugma, Dhanbad Dist.

Haris Tara Refractories, P.O. McChiskieganj, Ranchi Dist.

High Tension Insulators Factory, P.O. Namkum, Ranchi Dist.

India Firebricks & Insulation Co. Ltd., P.O. Marar, Hazaribagh Dist.

Jauhar Firebricks & Refractories Works (Pvt.) Ltd., P.O. Mugma, Dhanbad Dist.

Kumardhubi Fireclay & Silica Works Ltd., P.O. Kumardhubi, Dhanbad Dist.

Maithan Ceramics Pvt. Ltd., P.O. Chirkunda, Dhanbad Dist.

Seraikella Glass Works Pvt. Ltd., P.O. Kandra, Singhbhum Dist.

Delhi

Delhi Blue Art Pottery, 1, Factory Rd., New Delhi 110016.

Delhi Plaster Ind., P.O. Gurgaon Rd., New Delhi 110037.

Durga Enterprises Pvt. Ltd., 10, Darya Ganj, Delhi 110006.

Hitkari Brothers, Chaudhury Bldg., K. Block, Connought Circus, New Delhi 110001.

Ishwar Ind. Ltd., P.O. Ishwar Nagar, New Delhi 110020.

New India Mineral Co., 9938, Sarai Rohilla, New Rohtak Rd., New Delhi 110005.

Palam Potteries, P.O. Gurgaon Rd., New Delhi 110037.

Parashar Sales Corpn., 8928/1, Multani Dhanda, Paharganj, New Delhi 110055.

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Kesar Sugar Works Ltd., New Great Insurance Bldg., 7, J. Tata Rd., Bombay 400020.

Kodak Ltd., Kodak House, Dr. D. Naoroji Rd., Bombay 400001.

Kotak Chemicals Pvt. Ltd., Navsari Bldg., 240, D. Naoroji Rd., Bombay 400001.

Liberty Chemical Works, Nagardas Rd., Mogra (West), Andheri, Bombay 400069.

Madhusudan Insopolymers, Chandivali, Kurla-Vihar Rd., Bombay 400072.

Maharashtra Fine Chemicals, 813-14, Bhawani Peth Pune 411002.

Marvel Pvt. Ltd., B-9, Devkaran Mansion, Pathakwadi, S. Gandhi Marg. Bombay 2.

Merck Sharp & Dhome of India Ltd., New India Centre, 17, Cooperage, Bombay 400020.

Morani Chemicals Pvt. Ltd., Parsi Panchayat Rd., Andheri (East), Bombay 400069.

National Chemical Corpn., B-9, Devkaran Mansion, Pathakwadi, Bombay 400002.

National Organic Chemical Ind. Ltd., Mafatlal Centre, Nariman Point, Bombay 400020.

National Peroxide Ltd., Neville House, Graham Rd., Ballard Estate, Bombay 400001.

National Rayon Corpn. Ltd., Ewart House, Bruce St., Bombay 400001.

Navin Fluorine Ind., Mafatlal Centre, Nariman Point Bombay 400020.

Nopco (I.) Ltd., 4 Setalwad Rd., Bombay 400036.

ORWO Pvt. Ltd., Stadium House, V. Nariman Rd., Bombay 400020.

Phoenix Chemical Works Pvt. Ltd., Rajan House, Chhavani Galli, Prabhadevi, Bombay 400025.

Pigments & Dyestuffs Pvt. Ltd., Mon Repos, Arthur Bunder Rd., Colaba, Bombay 400005.

Pioneer Chemical Co., 45, Shrikrishna Nivas, Kalbadevi Rd., Bombay 400002.

Pioneer Magnesia Works Ltd., 113/115, M. Gandhi Rd., Bombay 400001.

P. K. Velu & Co. Pvt. Ltd., 111, M. Gandhi Rd., Bombay 400001.

Polychem Ltd., New Great Insurance Bldg., 7, J. Tata Rd., Bombay 400020.

Polyolefins Ind. Ltd., Mafatlal Centre, Nariman Point, Bombay 400020.

Prabhat General Agencies, 195, Kalbadevi Rd., Bombay 400002.

Prakash Chemical Ind., B1, Duncan Causeway, P.B. 6775, Sion, Bombay 400022.

Ronuk Ind. Ltd., 11-A, A. Gaffar Khan Rd., Worli Sea Face, Bombay 400018.

Sahyadri Dyestuffs & Chemicals Pvt. Ltd., Mafatlal House, Backbay Recl., Bombay 400020.

Sardesai Bros. Ltd., 12-A, Foreshore Rd., Bombay 400020.

Sarindage Pvt. Ltd., 14, Murzban St., Bombay 400001.

Saurashtra Chemicals, Industry House, 159, Churchgate Recl., Bombay 400020.

S.D.'s Lab-Chem Ind., 7, Indu Chambers, 349/53, Samuel St., Bombay 400003.

S. H. Kelkar & Co. Pvt. Ltd., L. B. Shastri Marg, Mulund, Bombay 400080.

Somaiya Organics (I) Ltd., Navrang House, 34, Shivaji Marg, Bombay 400001.

Somaiya Organo-Chemicals Ltd., Fazalbhoy Bldg., M. Gandhi Rd., Bombay 400001.

Star Chemicals (Bombay) Pvt. Ltd. Ltd., 21, Noble Chambers, Parsee Bazar St., Bombay 400001.

Sturdia Chemicals Ltd., Neville House, Graham Rd., Ballard Estate, Bombay 400001.

Sudarshan Chemical Ind. Pvt. Ltd., 162, Wellesley Rd., Pune 411001.

Summit Chemicals, Plot No. K-3, Cama Ind. Estate, Walbhat Rd., Goregaon (East), Bombay 400063.

Superchem, Kakad Chamber, 132, Dr. A. Besant Rd., Worli, Bombay 400018.

Surfactant Ltd., 401/405, Jolly Bhavan, 10, New Marine Lines, Bombay 400020.

Swadeshi Chemicals Pvt. Ltd., Army and Navy Bldg., M. Gandhi Rd., Bombay 400001.

Synthetics and Chemicals Ltd., New Great Insurance Bldg., 7, J. Tata Rd., Bombay 400020.

Tata Chemicals Ltd., Bombay House, Bruce St., Bombay 400001.

Uni Chem Laboratories Ltd., Jogeshwari West, Bombay 400060.

United Carbon India Ltd., 178, Backbay Recl., Bombay 400020.

Universal Chemicals (I.), 1308, Prasad Chambers, Next to Roxy Theatre, Girgaon, Bombay 400004.

Victor Trading & Engg. Co., Victor House, 102, Keshavrao Khadye Marg, Jacob Circle, Bombay 400011.

Vijay Ind., Sabun Bhavan, 187, Sheriff Devji St., Bombay 400003.

Vora Chemical Works, 357A, Samuel St., Bombay 400003.

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Agromore Ltd., Mysore Rd., Bangalore 560026.

Mysore Chemical Ind., C-21, Ind. Estate, Bangalor 560044.

Mysore Acetate & Chemicals Co. Ltd., Mysugar Bldg., J. Wadiyar Rd., Bangalore 560002.

Tamil Nadu

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Hindustan Heavy Chemicals Ltd., 14, Radha Bazar Lane, Calcutta 700001.
Howrah Chemical Works, 148, M. Gandhi Rd., Calcutta 700007.
India Carbon Ltd., 6, Old Post Office St., Calcutta 700001.
India Alkalies Ltd., 5, Garstin Place, Calcutta 700001.
Indian Health Institute Laboratory Ltd., 1, Health Institute Rd., Dum Dum Cantt., Calcutta 700028.
Indo British Chemical Co., P. 14, Mission Row Extn., Windsor House, Calcutta 700001.
Indo Pharma Laboratory, 9/12, Lal Bazar St., Calcutta 700001.
J. D. Jones & Co., Ltd., C-5, Gillander House, 8, N. Subash Rd., Calcutta 700001.
Jayashree Chemicals Ltd., 14, N. Subash Rd., Calcutta 700001.
Kanoria Chemicals & Ind. Ltd., 9, Brabourne Rd., Calcutta 700001.
Life Pharmaceuticals Pvt. Ltd., P-11, Kanungo Park, Block A, P.O. Garia, 24 Parganas.
Phosphate Co. Ltd., 14, N. Subash Rd., Calcutta 700001.
Radha Chemicals Co. Ltd., 3, Synagogue St., Calcutta 700001.
Rohtas Ind. Ltd., 11, Clive Row, Calcutta 700001.
Seth Chemical Works, 160, J. Bajaj St., Calcutta 700007.
Smith Stanistreet & Co. Ltd., 18, Convent St., Calcutta 700014.
Standard Pharmaceuticals Ltd., 67, Dr. S. Sarkar Rd., Calcutta 700014.
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Bharat Steel Metal Ind. Ltd., 36, A. Pratapaditya Rd., Calcutta 700026.
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Chemical Vessels Fabricators Pvt. Ltd., 10/1, Deshbandu Rd., Calcutta 700035.
Deki & Mank, 39, Airconditioned Market, Tardeo, Bombay 400034.
Falls Ind. Incorpn., 502, Jolly Bhavan No. 1, 10 New Marine Lines, Churchgate, Bombay 400020.
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Hind Galvanising & Engg. Co. Pvt. Ltd., 96, Garden Reach Rd., Calcutta 700023.
Hind Tank Manufg. Co., 6th Kumbharwada Lane, Bombay 400004.
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K. Mahadev & Co., Pvt. Ltd., Datta Mandir Rd., Bhandup, Bombay 400078.
Mansfield Oil Gas Co. Pvt. Ltd., 16, R. Chowdhury Rd., Calcutta 700015.
Mukund Iron & Steel Works Ltd., L. B. Shastri Marg, Kurla, Bombay 400070.
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Vulcan Laval Ltd., 7-A, Sir P. Mehta Rd., Mustafa Bldg. Bombay 400001.
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Ambica Vijay Works Ind. Estate, Lalbagh, Bombay 400012.
C. Bole & Co., 16 N. Dhuru St., Bombay 400003.
Empire Dyeing & Manufg. Co. Ltd., Garlick Engg. Div., B. Jagtap Marg, Bombay 400011.

Gammon India Ltd., Gammon House, V. Savarkar Marg, Prabhadevi, Bombay 400025.

Millars Machinery Co. Pvt. Ltd., Victoria House, Victoria Rd., Bombay 400027.

Nadirshaw & Bros. Silver Talkies Bldg., 10, Khetwadi Back Rd., Bombay 400004.

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Hyderabad Packaging Pvt. Ltd., Ind. Estate, Moulali, Hyderabad 500040.

Masanto Containers Pvt. Ltd., 2-3-37, Amberpet, Hyderabad 500013.

Progressive Packaging Pvt. Ltd., B-42, Ind. Estate, Sanatnagar, Hyderabad 500018.

Shree Packaging Corpn., 2-3-720, Amberpet, Hyderabad 500013.

Sri Saibaba Packaging Ind., 6-3-905, Raj Bhavan Rd., Somaji Guda, Hyderabad 500004.

T. R. Enterprises Pvt. Ltd., 16-10-1, Malakper, Hyderabad 500024.

Vistas Corrugated Box Factory, 103, S. Patel Rd., Secunderabad 500003.

Delhi

Ajanta Offset & Packing Pvt. Ltd., D-180, Defence Colony, New Delhi 110001.

Anil Packaging Ind., 4539, Pahari Dhiraj, Delhi 110006.

Capital Corrugating Ind., 4184, Gali Ahiran, Pahari Dhiraj, Delhi 110006.

Delhi Corrugated Paper Co., Gali Bahuju, Pahari Dhiraj, Delhi 110006.

Delhi Packaging Pvt. Ltd., 1E/9, Jhandewalan Extn., New Delhi 110055.

Delhi Pulp Ind., Akashdeep Bldg., Bara Khamba Rd., New Delhi 110001.

Everest Corrugating Ind., 3-E/6, Jhandewalan Extn., Link Rd., New Delhi 110055.

Ganesh Packaging Ind., C-514, Defence Colony, New Delhi 110003.

Hindustan Papers, 7/33, Daryaganj, Delhi 110006.

Jaaj Corrugating Ind., 6-A, Connaught Place, New Delhi 110001.

Packers Products, 10/58, Kirtinagar, New Delhi 110015.

Paper Products Ltd., 13-14, Ajmerigate Extn., New Delhi 110001.

Rajdhani Paper & Board Ind., Gali Bahuji, Pahari Dhiraj, Delhi 110006.

Gujarat

Baroda Box & Manufg. Co., Kalali, Vadodara 390001.

Baroda Packaging, Box House, Ind. Estate, Vadodara 390003.

Carton & Container, Bajva, Via Vadodara.

Creative Packaging, Ind. Area, Vadodara 390003.

Gujarat Paper Ind., Makarpura, Vadodara 390001.

Jayant Paper Mills, Container Division, Utran, Surat Dist.

Peco Ind., R. C. Patel Ind. Estate, Akota Rd., Vadodara 390005.

Pick & Pack, Naroda Ind. Estate, Naroda, Ahmedabad.

Standard Corrugators, R. C. Patel Ind. Estate, Akota, Vadodara 390005.

Vakal Traders, Ind. Estate, Vadodara 390003.

Yogi Packaging Ind., 18, Pratap Gunj, Vadodara 390002.

Kerala

Trio Packaging Co., Commercial Union House, Willingdon Island, Cochin.

Maharashtra

Aryan Packing Service, Globe Mill Passage Cross Lane, Behind Century Mill, Bombay 400013.

Ashok Paper Box Manufg. Co., 38J, Kapreshwar Marg, S. Podar Rd., Bombay 400002.

Atul Packers, 224, Bellasis Rd., Bombay 400008.

Babsons Paper Box Factory, 17 Dhobi St., Bombay 400003.

Bharmal Paper Box Manufrs., 96, Byculla Station Rd., Bombay 400011.

Bliss Pack, 25-Interlink Ind. Estate, Caves Rd., Jogeshwari (East), Bombay 400060.

Bombay Packaging Ind., Steelmade Ind. Estate, Marol Maroshi Rd., Marol, Andheri East, Bombay 400059.

Boxage, New Empire Ind. Estate, Unit No. 13, A Bldg., Andheri-Kurla Rd., Andheri East, Bombay 400059.

Box Fine, Ghatkopar Ind. Estate, Unit 9, Behind Geoffrey Manners, L. B. Shastri Marg, Ghatkopar, Bombay 400077.

Boxpack Paper Ind. Pvt. Ltd., 81-83, Mint Rd., Bombay 400001.

Boxrite, Shroff Market, Gokhale Rd. (South), Bombay 400025.

Boxwell (India) Pvt. Ltd., Box House, 54, Kurla-Andheri Rd., Bombay 400070.

D. Chandrakant & Co., 5/17, Sindhi Lane, Bombay 400004.

Ever Best Paper Embossing Works, Moti Baugh, Sion-Trombay Rd., Chembur, Bombay 400071.

Everest Packaging Corpn., 25, Mahal Ind. Estate, Mahakali Rd., Andheri (East), Bombay 400069.

Gipar Packaging, 175 CST Rd., Kalina, Bombay 400029.

Hermes Packaging, B-21/22, Giriraj Ind. Estate, Mahakali Rd., Andheri (East), Bombay 400069.

Hind Paper Box Manufg. Co., Ishwar Bhawan, A Rd., Churchgate, Bombay 400020.

Hindustan Packaging Ind., Kurla-Andheri Rd., Near Saphed Bridge, Bombay 400072.

India Corrugating Ind. Pvt. Ltd., 37-A, Parel Cross Lane, Chinchpokli, Bombay 400012.

Indian Packaging Corpn., Elphinstone Mills Comp., N. M. Joshi Marg. Bombay 400013.

IPCO Packaging Pvt. Ltd., Elphinstone Mills (Leather Div.) Comp., Delisle Rd., Bombay 400013.

Jayant Paper Box Factory, 205, Kakad Chambers, 132, Dr. A. Besant Rd., Worli, Bombay 400018.

John's Pack, 9/6, Udyognagar Ind. Estate, S. Vivekanand Rd., Goregaon (West), Bombay 400062.

Kohinoor Paper Box Factory, Mogra West, Andheri, Bombay 400069.

Krishna Box Factory, Shroff Bldg., Lalbaug, Bombay 400012.

Maharashtra Ind. Enterprises, 2, Rishikesh, Worli, Bombay 400018.

Master Packaging Service, Minerva Movietone Comp., Bunder Rd., Sewri, Bombay 400015.

Mehta Paper Ind., 61, Govt. Ind. Estate, Kandivli, West, Bombay 400067.

Multiprint Ind., 25, New Islam Mills Comp., Currey Rd., Bombay 400013.

National Paper Box Factory, Haji Manzil, 82-86, A. Rehman St., Bombay 400003.

New Modern Traders, A-18, M.I.D.C. Estate, J.B. Nagar, Andheri (East), Bombay 400059.

New Strand Box Factory, 62, B. Shanker Rd., Dadar, Bombay 400028.

Pac-Wel Ind., 3-B, Gilder Lane, Bombay 400008.

Packers Pvt. Ltd., Patel House, Hughes Rd., Bombay 400007.

Packfine Corrugating Ind., 7, Sadhana Ind. Estate, Oshiwara, Jogeshwari Bombay 400060.

Packraft Ind., Sainath Ind. Estate. Shed No. 'D', Off Kotkar Rd., Goregaon East, Bombay 400063.

Packwel Service, 15, Sainath Ind. Estate No. 2, Near Kotkar Enamel Works, Goregaon East, Bombay 400063.

Pakrite, 27, 10th Kamathipura, Bombay 400008.

Panchshil Packaging Ind., Hanuman Silk Mills Comp., Bhandup, Bombay 400078.

Paper Box Co. of India, Gupta Wadi, King Edward Cross Lane, Sewree, Bombay 400015.

Paper Corrugation & Packaging Pvt. Ltd., 74-B, Govt. Ind. Estate, Kandivli (West), Bombay 400067.

Paradise Paper Products, Mahendra Ind. Estate, Rd. No. 29, Plot No. 109-D, Sion (East), Bombay 400022.

Perfect Packagings, Subash Nagar, Off Caves Rd., Jogeshwari (East), Bombay 400060.

Pramod Paper Box Ind., 220-E, Prabhat Wadi, Behind Raj Oil Mills, Bellasis Rd., Bombay 400008.

Saurashtra Packing Service, 606, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Saurashtra Paper Box Manufrs., 113, J. Maharaj Lane, 3rd Bhoiwada, Bombay 400002.

SB Cardocrafts, 15, Bombay Talkies Comp., Malad (West), Bombay 400064.

Shakti Packaging Ind., 38/42, Shamsheth St., Bombay 400002.

Shantilal & Co., 99, Banian St., Bombay 400002.

Shree Gurudatta Paper Box Factory, Mugbhat Lane, Girgaum, Bombay 400004.

Standard Box Ind., Shreeniwas House, Waudby Rd., Bombay 400001.

Standard Box Manufg. Co., Off. Fergusson Rd., Bombay 400013.

Subandhu Corrugating Ind., 123, Shayda Marg, (Dongri St.), Bombay 400009.

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Punjab

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Tamil Nadu

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Calcutta Paper Ind., 121 Chittaranjan Ave., Calcutta 700007.

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Impex Corpn., 23J, R. M. Dutta Garden Lane, Calcutta 700010.

Kajeria Chemi-Paper Pvt. Ltd., 28, Amartolla St., Calcutta 700001.

Minerva Corrugating & Packaging Corpn., 15, India Exchange Place, Calcutta 700001.

National Paper Processing Co., 23/32, Chanditala Main Rd., Calcutta 700053.

Sunrise Packaging Co., 196/C, Chittaranjan Ave., Calcutta 700007.

United Paper Products, P/222, Panditia Rd. Extn., Calcutta 700029.

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Delhi

Bawa Potteries, Mehrauli, New Delhi 110030.

Kashmir Ceramics Ltd., Jeevan Vihar, Parliament St., New Delhi 110001.

Paulsons Ceramic Potteries, 440, Palam Enclave, Delhi 110010.

Gujarat

Digvijay Tiles & Potteries Ltd., Jamnagar 361001.

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Haryana

Hitkari Potteries Pvt. Ltd., 63, Ind. Area, Faridabad 121001.

Kerala

Government Ceramic Factory, Quilon 691001.

Madhya Pradesh

Burn & Co. Ltd., Jabalpur 482001.

Gwalior Potteries, Gwalior 474001.

Maharashtra

Kashmira Ceramic Products Pvt. Ltd., Rahimtulla House, Homji St., Bombay 400001.

Navbharat Potteries Pvt. Ltd., T. Jivraj Rd., Bombay 400015.

Mysore

Government Porcelain Factory, Malleswaram, Bangalore 560001.

Punjab

Himalaya Potteries Ltd., Phillaur.

Hindustan Twyfords Ltd., Bahadurgarh, Mandi 175001.

Rajasthan

Shivraj Pottery Works Opp. A.I.R., Jaipur 302001.

Uttar Pradesh

Khurja Potteries, Khurja.

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Bengal Enamel Works Ltd., 24, Chittaranjan Ave., Calcutta 700012.

Bengal Porcelain Co. Pvt. Ltd., 1-2, Motisil St., Calcutta 700013.

Bengal Potteries Ltd., 45, Tangra Rd., Calcutta 700015.

Calcutta Crucible Manufg. Works, 52, K. Mitra Lane, Salkia, Howrah 711101.

Central Glass Ind. Pvt. Ltd., 7, Swallow Lane, Calcutta 700001.

India Potteries Ltd., 91, Dharmatala St., Calcutta 700013.

DIESEL ENGINES AND COMPONENTS

Andhra Pradesh

Sarada Engg. Co., B-6 & 7, Ind. Estate, Moula-Ali Hyderabad 500040.

Shriram Refrigeration Ind. Ltd., P O. Balanagar Township, Hyderabad 500037.

Delhi

Nav Bharat Engg. Co , 4120, Naya Bazar, Delhi 110006.

Maharashtra

Agra Engg. Co, 40, Bank St., Bombay 400001.

Arjansingh Khemchand, 118, Commerce House, Medows St., Bombay 400001

Economic Traders, 35, Tamarind St., Bombay 400001.

Elmot Engg. Co. Pvt. Ltd., 2, Udyog Nagar, S. Vivekanand Rd., Goregaon West, Bombay 400062.

Geco Trdg. Corpn. 5, K. K. Mansions, 289, Nagdevi St., Bombay 400003.

H. T. C. Diesel Engines Pvt. Ltd., Plot No. 33, Kandivli Govt. Ind. Estate, Kandivli West, Bombay 400067.

Kirloskar Cummins Ltd., Kothrud, Pune 411029.

Kirloskar Oil Engines Ltd., 13, L. Kirloskar Rd., Kirkee, Pune 411003

National Metal Ind. 15/A, Parel Village Rd., Bombay 400012.

Nutan Engineers, 48-B, Saki Vihar Rd., Saki Naka, Bombay 400072.

Ruston & Hornsby (I) Ltd , Chinchwad, Pune 411019.

Sigil India Services Pvt. Ltd., P. O. Box No. 952, Bombay 400001.

Swastik Engineers, Plot No. 5, Kaka Halwai Ind. Estate, Swargate, Pune 411009.

Tekma Ind. 49-B, Saki Vihar Rd., Saki Naka, Bombay 400072.

West Bengal

Elecdies (India), 12-B, N Subash Rd., Calcutta 700001.

Indian National Diesel Engine Co. Ltd., Hall & Anderson Bldg., Park St., Calcutta 700016.

Universal Engineers & Traders, 20, N. Subash Rd., Calcutta 700001.

DISTILLERIES & BREWERIES

Andhra Pradesh

A. P. Govt. Power Alcohol Factory, Shakarnagar, Nizamabad Dist.

Anakapalle Co-op. Agricultural & Ind. Society Ltd., P.O. Thummapala, Visakhapatnam Dist.

Andhra Sugar Ltd., Venkatarayapuram, Tanuku 530001.

Andhra Winery & Distillery, Malkajgiri, Secunderabad 500047.

Hindustan Polymers Ltd., Pendurthi Rd., Visakhapatnam 530001.

K. C. P. Ltd., (Distillery) Vuyyuru, Krishna Dist.

Sri Ram Sugar & Industries Ltd., Bobbili, Srikakulam Dist.

Sri Sarvaraya Sugars Ltd., Chelluru, East Godavari Dist.

Vinedale Distilleries Pvt. Ltd., Chateau-De-Causer, Premavathipet Village, P.O. Gagan Pahar, Hyderabad Dist.

Bihar

Behar Distillery Pvt. Ltd., Pachrukhi, Saran Dist.

New Swadeshi Sugar Mills Ltd., Narkatiaganj, Champaran Dist.

S. K. G. Distilleries, Lauriya, Champaran.

S. K. G. Distillery, Mirganj, Saran Dist.

Gujarat

Alembic Chemical Works Co. Ltd., Ind. Area, Vadodara 390001.

Sardesai Brothers Ltd., P.O. Sardesai Factory, Bilimora, Valsad Dist.

Shree Bileshwar Khand Udyog, Khedut Sahakari Mandli Ltd., Kodinar.

Haryana

Haryana Distillery, Yamunanagar.

Karnal Distillery Co. Ltd., Karnal 132001.

Panipat Co-operative Distillery, Panipat.

Himachal Pradesh

Mohan Meakin Breweries Ltd., P.O. Solan Brewery.

Kerala

Co-operative Sugars Ltd., Chittur, P.O. Menonpara, Palghat Dist.

Travancore Sugars & Chemicals Ltd., Pamba Distillery, Tiruvalla 689101.

Maharashtra

Brihan Maharashtra Sugar Syndicate Ltd., Shreepur, Sholapur Dist.

Kolhapur Sugar Mills Ltd., Kasba Bavada, Kolhapur 416006.

Krishna S. S. K. Ltd., Rethare-Budruk, P.O. Shivnagar, Satara Dist.

Maharashtra Sugar Mills Ltd., Tilaknagar, Ahmednagar Dist.

Polychem Ltd., Nira, Pune Dist.

Pravara S. S. K. Ltd., Pravaranagar, Ahmednagar Dist.

Rahuri Sahakari Sakhar Karkhana Ltd., Shrishivajinagar Ahmednagar Dist.

Shetkari Sahakari Sakhar Karkhana Ltd., Sangli 416416.

Shree Panchaganga S. S. K. Ltd., Ganganagar-Ichal-Karanji, Kolhapur Dist.

Somaiya Organo Chemicals Ltd., Sakarwadi, Ahmednagar Dist.

United Co-operative Distillery Ltd., Parite, Kolhapur Dist.

Walchandnagar Ind. Ltd., Walchandnagar, Pune Dist.

Mysore

Amrut Distilleries, Sampangi Tank Rd., Bangalore 560027.

India Sugar & Refineries Ltd., Hospet, 583201.

Mysore Sugar Co. Ltd., Mandya, 571401.

Nandi Breweries & Distillers Pvt. Ltd., 9th Mile Stone, Tumkur Rd., Bangalore 560022.

Ugar Sugar Works Ltd., Ugar Khurd, Belgaum Dist.

United Breweries Ltd., 32 Grant Rd., Bangalore 560001.

Punjab

Bhagat Ind. Corpn. Ltd., P.O. Distillery Khasa, Amritsar 143001.

Jagatjit Ind. Ltd., P.O. Jagatjitnagar, Kapurthala Dist.

Rajasthan

Ganganagar Sugar Mills Ltd., Sriganganagar 335001.

Udaipur Distillery Co. Pvt. Ltd., Udaisagar Rd., Udaipur 313001.

Tamil Nadu

Arvind Distillery Pvt. Ltd., "Meco House", 11-A/1, Mount Rd., Madras 600002.

E. I. D. Parry Ltd., Nellikuppam.

McDowella Co. Ltd., 22-23 Moore St., Madras 600001.

Sakthi Sugar Ltd., 72, Sengupta St., P.B. 960, Ramnagar, Coimbatore 641001.

Trichy Distilleries & Chem. Ltd. Senthannipuram, Golden Rock, Tiruchirapally 620001.

Uttar Pradesh

Ajudhia Distillery, Rajakasahaspur, Moradabad Dist.

Alco Chem. Ltd., Seohara, Bijnor Dist.

Captainganj Distillery, Captainganj, Deoria Dist.

Carew & Co. Ltd., Rosa, Shahjahanpur Dist.

Central Distillery & Chem. Works Ltd., Meerut Cantt. 250001.

Co-operative Co., Ltd. (Distillery), Saharanpur 247001.

Daurala Sugar Works (Distillery), Daurala, Meerut Dist.

Doon Valley Distillers, Kunwawala, Hardwar Rd., P.O. Harrawala, Dehradun 248001.

Hindustan Sugar Mills Ltd., Golagokarannath, Kheri Dist.

Kesar Sugar Works Ltd., Beheri, Bareilly Dist.

Modi Distillery, Modinagar 250001.

Mohan Meakin Breweries Ltd., Mohannagar, Ghaziabad 201001.

Mohan Meakin Breweries Ltd., Lucknow Distillery, Dallygunge, Lucknow 226001.

Narang Ind. Ltd., Nawabganj, Gonda Dist.

Oudh Sugar Mills Ltd. (Distillery), Hargaon, Sitapur Dist.

Pilkhani Distillery & Chem. Works, P.B. 69, Saharanpur 247001.

Rampur Distillery & Chem. Co. Ltd., Rampur 244901.

Saraya Distillery, Sardarnagar, Gorakhpur Dist.

Shamli Distillery & Chem. Works, Shamli, Muzaffarnagar Dist.

Simbhaoli Ind. Pvt., Ltd., Simbhaoli, Meerut Dist.

Sir Shadi Lal Distillery & Chem. Works, Mansurpur, Muzaffarnagar Dist.

Standard Refinery & Distillery Ltd., Unnao 209801.

West Bengal

Carew & Co. Ltd., 6, Old Court House St., Calcutta 700001.

Ruttonjee & Co. Ltd., 6, Old Court House St., Calcutta 700001.

Shaw Wallace & Co. Ltd., Bhadrakali, Hooghly Dist.

Shree Krishna Gyanoday Sugar Ltd., 11 Clive Row, Calcutta 700001.

DRUGS & PHARMACEUTICALS

Andhra Pradesh

Anakapalle Co-op. Agriculture Ind. Society Ltd., No. W/41, Thummapala, Anakapalle, 531001.

Biochemical & Synthetic Products Ltd., Sanatnagar, Hyderabad 500018.

Biological Evans Ltd., 18/1 & 3 Azamabad, Hyderabad 500020.

J. & J. Dechane, Residency Rd., Hyderabad 500001.

Nath Laboratories, 23A, Ind. Estate Expansion, Balanagar, Hyderabad 500037.

Royal Laboratories, Chandulal Baradari, Hyderabad 500002.

Siri Pharma, Sirinagar Ind. Estate, Vijayawada 520007.

Sri Vizia Medical Syndicate, B-4-304/2, Bank St., Sultan Bazar, Hyderabad 500001.

Warner Hindustan Ltd., Warangal Rd., Uppal, Hyderabad 500039.

Assam

Drugs India (Manufg.), Dispur, Gauhati 781005.

United Colours & Chemicals (Assam) Pvt. Ltd., G. Bordoi Rd., Panbazar, Gauhati, 781001.

Bihar

National Chemical & Pharmaceutical Works, 5, Kankarbagh Rd., Patna 800001.

Natraj Chemicals, Chittaranjan Rd., P.O. Lakhisarai, Monghyr Dist.

P. C. Laboratories, Dak Bungalow Rd., Patna 800001.

Supreme Pharmaceutical Laboratories, Exchange Rd., Raxaul.

Delhi

Allied Chemicals & Pharmaceuticals Pvt. Ltd., Bajaj Bldg., D. B. Gupta Rd., New Delhi 110055.

Arora & Co., 1656, Bhagirath Palace, Delhi 110006.

Associated Pharma, 8/29, Kirti Nagar Ind. Area, New Delhi 110015.

The Ayurvedic Pharmaceutical Co. Ltd., 264, Kamla Market, New Delhi 110001.

Dipsan Laboratories (I) Pvt. Ltd., A-37, Rajouri Gardens, New Delhi 110027.

Jagson Pal & Co., 1520, Bhagirath Palace, Delhi 110006.

J. R. Sharma & Co. Pvt. Ltd., 3622, N. Subash Marg, Delhi 110006.

Kee Pharma, Jaihind Bldg., Bhagirath Palace, Delhi 110006.

Kumar Pharmaceutical Works Pvt. Ltd., 4827/24, Ansari Rd., Darya Ganj, Delhi 110006.

La Medica, Behind State Bank, Chandni Chowk, Delhi 110006.

Loyds Pharmaceutical Co., 24, Daryaganj, Delhi 110006.

Rapbaxy Lab. Pvt. Ltd., Okhla Ind. Area, New Delhi 110020.

Remedies (I) Pharmaceuticals, G-102, Kirti Nagar, New Delhi 110015.

Everest Pharmaceutical Works, F-34, N.D.S.E., Part 1, New Delhi 110049.

Goa

Drugs & Chemicals (I), P.B. 42, Margao, 403601.

Carter-Wallace Ltd., Rua de Ourem, Panaji 403001.

Gujarat

Acron Pharmaceuticals, Sorabji Comp., Old Vadaj, Ahmedabad 380013.

Alar Laboratories, Shree Kunj, Navrangpura Rd., Ahmedabad 380009.

Alembic Chemical Works Co. Ltd., Alembic Rd., Vadodara 390003.

Allied Pharmaceutical Laboratories, Ranmukteswar Mahadev Rd., Ind. Area, Pratapnagar, Vadodara 390004.

Anil Starch Products Ltd., Anil Rd., Ahmedabad 380018.

Baroda Chemical Ind. Ltd., Opp. College, Dabhoi, Vadodara Dist.

B.Tex Ointment Manufg. Co., 20/21-D, Udyog Nagar, Navsari 396445.

Bhavnagar Chemical Works Ltd., Vartej, Bhavnagar Dist.

Cadilla Laboratories, Ghodasar Maninagar, Ahmedabad 380008.

Care Pharmaceuticals, CBI-16, GIDC Ind. Estate, Makarapura Rd., Vadodara 390009.

Didi Pvt. Ltd., Race Course Rd., Vadodara.

Girish Pharmaceutical Works, Opp. Putali, 214703, Navsari Bazar, Surat 395002.

Gufic Pvt. Ltd., Kabilpur, Post Kaliawadi, Valsad Dist.

Gujarat Chemical Ind., Gujarat Bhavan, Vyara, Surat Dist.

Gujarat Pharmaceutical & Chemical Works, Near Chamundo Mata, Asarva, Ahmedabad 380016.

Iris Laboratories (I), Ramole Rd., Khokhra Mehemdabad, Ahmedabad 380008.

Jaychem Lab, 12/1689-98, Sarkezi Manzil, Saiyadwada, Shapore, Surat 395003.

Lunik Pharma, 18 Sohag Raman Nagar Society, Maninagar, Ahmedabad 380008.

McGaw-Ravindra Laboratories (I) Ltd., Rohit Mills Premises, Amraiwadi Rd., Ahmedabad 380008.

Mendoz Pharmaceuticals, 41/2, Ind. Estate, Vadodara 390003.

Mercury Pharmaceutical Ind., 2/13 and 2/14 Ind. Estate, Vadodara 390003.

Paragon Laboratories, F-4, Bardanwala Rd., Jamnagar 361001.

Puro Pharma Laboratories, Pravin Nagar, Sherkhej Rd., Ahmedabad 380007.

Rup Pharma, A-1, Udyognagar, Navsari 396445.

Sarabhai Chemicals, Wadi-Wadi, Vadodara 390007.

Siddharth Chemical Ind., 18, Hirabhai Market, D. Ballubhai Rd., Ahmedabad 380022.

Stan-Rol Pvt. Ltd. Ranmukteshwar Rd., Ind. Area, Pratapnagar, Vadodara 390004.

Suhrid Geigy Ltd., Wadi-Wadi, Vadodara 390007.
Synbiotics Ltd., P.B. 129, Wadi-Wadi, Vadodara 390007.
Trinity Laboratories, 14, Jalaram Society, Bhairavnath Rd., Kankaria, Ahmedabad.

Haryana

Curewel (I) Ltd., Plot No. 2, Sector 6, Faridabad 121001.
Ethichem Laboratories, Civil Rd., Rohtak, 124001.
National Laboratories, 20th Mile Stone, Mathura Rd., Ballabhgarh 121004.
Nectarine Pharmacy, 47, Ind. Area, Faridabad 121001.
Societa Confica Chemical Corpn., Modern Ind. Estate Main Rd., Bahadurgarh.

Himachal Pradesh

Pharma Chemico Laboratories, Solan 173212.

Kerala

Cochin Pharmacol Co., P.O. Punkunnam, Trichur 680002.
Electrochemical Manufg. Co., Mulakunnathukavu, Trichur Dist.
Enoch Pharma, Q. S. Rd., Quilon 691008.
Marco Chemicals, 20/269, West Fort, Trichur 680004.
Navaratna Pharmaceutical Laboratories, Navaratna House, Manthra Rd., Cochin 682001.
Phair Laboratories, Ettumannoor 686631.
Pharmaceuticals & Chemicals (Trav) Pvt. Ltd., Trivandrum 695001.
Puru Pharma Pvt. Ltd., W22/189, Alleppey, 688001.
Pratap Ind., P. B. 22, Tirur 676101.
Southern Union Pharmaceuticals, Museum Rd., Trichur 680001.
Trinity Pharmaceuticals (I) Pvt. Ltd., Ran Vihar, Aranattukara, Trichur 680004.

Madhya Pradesh

Ajmera Pharmaceuticals, B/94, Ind. Estate, Polo Ground, Indore 452001.
Alpha Laboratories, 104, Ushanagar Colony, Indore 452001.
Bharat Pharmaceuticals, 23, Yeswant Niwas Rd., Indore 452003.
Bombay Ideal Products (I), 6, Ind. Estate, Indore 452003.
Bombay Pharma Products, 122, Palsikar Colony, Indore 452002.
Fine Pharmaceutical Ind., 24, Adarsh Nagar, Indore 452001.
Hambar Pharmacy, 4/96, Manak Pura, Ujjain 456001.
Imphalabs, 111, Ind. Estate, Indore 452003.
J.M.J. Pharma, Mangla Rd., Bilaspur 495001.
Jamsons Laboratories, 43, Ind. Estate, Indore, 452003.
Joy Pharmaceutical Laboratories, 17, Pagnispaga, Indore 452002.
Lokash Chemical Works, Raipur 492001.
Lord Chemical Works, 7, Tukoganj Main Rd., Indore 452001.
M. K. Industries, Melonigunj, Jabalpur 482001.
MAB-LAB, 82, Ravindra Nagar, Indore 452001.
Oriental Chemical Works, Opp. Rly. Stn. Road, Indore Dist.
Pure Pharma Products (I), 41-44, Ind. Estate, Indore 452003.
Ravi Chemical Ind., 84, Shankar Baug, Indore 452001.
Relief Drug House, Jay Medical Corpn., Maharani Rd., Indore 452001.
Royal Laboratories, 42, Agrasen Nagar, Bijsan Rd., Indore 452001.
Suneeta Laboratories Pvt. Ltd., 89-B/90, Ind. Estate, Polo Ground, Indore 452001.
Saugar Ayurvedashram Pharmacy, 304, North Raj Mohalla, Indore 452002.
Vadson Laboratories, Ind. Estate, Raipur 492001.
Vostok Laboratories, 44, Marothio Bazar, Indore 452001.
Yadnere Chemical Works, 4, Palasia St., No. 1, Indore 452001.

Maharashtra

Abbott Laboratories (I) Pvt. Ltd., Jehangir Bldg., M. Gandhi Rd., Bombay 400001.
Acicem Laboratories, 1, Prabhat Nagar, Jogeshwari West, Bombay 400060.
Ajit Laboratories Pvt. Ltd., Ind. Estate, Miraj.
Alarsin Pharmaceuticals, 12, Rampart Row, Bombay 400001.
Albert David Ltd., Maker Bhavan No. II, 18, New Marine Lines, Bombay 400020.
Alma Laboratories, Fort House, Behind Handloom House, Dr. D. Naoroji Rd., Bombay 400001.
Alpha Chemical Ind., Arnala, Via Virar, Thana Dist.
Alpha Laboratories, Ebrahim Mansion, Kalbadevi Rd., Bombay 400002.
Alta Laboratories Ltd., Vissonji Park, Naigaum Cross Rd., Dadar, Bombay 400014.
Amber Research & Pharmaceutical Works, Himalaya House, 220, D. Naoroji Rd., Bombay 400001.
Amsar Pvt. Ltd., 2, Hormuz Mansion, 72, B. Desai Rd., Bombay 400026.
Andre Laboratories, Aidun Bldg., 1st Dhobi Talao Lane, Bombay 400002.
Anglo-Thai Corpn. Ltd., Ewart House, Bruce St., Bombay 400001.
Asepticus Co., Swadeshi Market, Kalbadevi Rd., Bombay 400002.
Ashok Laboratories Pvt. Ltd., 92, Municipal Ind. Estate, Off Haines Rd., Worli, Bombay 400018.
Asian Pharmaceuticals, 9, Air Conditioned Market, Tardeo Rd., Bombay 400034.
Associated Capsules Pvt. Ltd., 131, Kandivali Ind. Estate, Bombay 400067.
Associated Pharmaceutical Co., 20/24, Champ Gali Cross Lane, Singapuri (Dasani) Bldg., Bombay 400002.
Atco Pharma Laboratories, 229/30, Wadala Udyog Bhavan, Naigaum Cross Rd., Wadala, Bombay 400031.
Auxil Pharmaceuticals, 1, S. Vivekanand Rd., Andheri West, Bombay 400058.
Avon Pharmaceuticals (I), 261, Dr. D. Naoroji Rd., Bombay 400001.
Ayurchem Pharmaceuticals, Jeevan Bldg., Jai Prakash Nagar, Goregaon West, Bombay 400063.
Ayurveda Rasashala, Karve Rd., Pune 411004.
Bayer (I) Ltd., Express Towers, Nariman Point, Bombay 400020.
Beacon Pharmaceuticals, 135/136, Andheri Kurla Rd., Bombay 400069.
Beechum (I) Pvt. Ltd., Beechum House, Mahim, Bombay 400016.
Bell Pharma, 119/1, Taikal Wadi Rd., Mahim, Bombay 400016.

Bharat Laboratories, 534, Sandhurst Bridge, Bombay 400007.

Bhavana Chemicals, 53/57, Laxmi Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.

Biddle Sawyer & Co. (I) Pvt. Ltd., 25, Dalal St., Bombay 400001.

Binichem Laboratories, 123/124, Kapadia Ind. Estate, Andheri Kurla Rd., Old Ashram, Bombay 400068.

Biochem Pharmaceutical Ind., 'A' Aidun Bldg., 1st Dhobi Talao Lane, Bombay 400002.

Biox Laboratories, 315, Neelam Bldg., Worli Sea Face Rd., Bombay 400018.

Boehringer-Knoll Ltd., United India Bldg., Sir P. Mehta Rd., Bombay 400001.

Bombay Tablet Manufg. Co., 304, S. Gandhi Marg., Bombay 400002.

Boots Co. (I) Ltd., Asian Bldg., 17, Nicol Rd., Ballard Estate, Bombay 400001.

British Pharmaceutical Laboratories, Anand Bhuvan, 17, Babu Genu Rd., Bombay 400001.

Broadway Laboratories (I), A/26-27, Shriram Ind. Estate, 13, G. D. Ambedkar Rd., Wadala, Bombay 400031.

Burroughs Wellcome & Co. (I) Pvt. Ltd., 16, Bank St., Bombay 400001.

C.C.I. Products, Sunrise Estate, Hill Rd., Kurla, Bombay 400070.

C. E. Fulford (I) Pvt. Ltd., Ralli House, 21, Raveline St., Bombay 400001.

Charak Pharmaceuticals, Shakti Mills Lane, Off Haines Rd., Bombay 400011.

Chem Med Analytical Laboratories, 5-6, Kakad Estate, Seaface Rd., Worli, Bombay 400018.

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Chemical Ind. & Pharmaceutical Labs. Ltd., 289, Bellasis Rd., Byculla, Bombay 400008.

Chemo Pharma Laboratories Ltd., C. S. 215, Sewree, Bombay 400015.

Chemosyn Pvt. Ltd., 38, Suren Rd., Andheri East, Bombay 400059.

Chemspec, 32, Morvi House, 28-30, Goa St., Bombay 400001.

Chowgule & Co. (Hind) Pvt. Ltd., India House, Fort St., Bombay 400001.

Chudgor & Co. Pvt. Ltd., Anand Bhavan, S. Gandhi Marg, Bombay 400002.

CIBA of India Ltd., 14, J. Tata Rd., Bombay 400001.

Comtek Laboratories, 85, Dr. A. Besant Rd., Worli, Bombay 400018.

Continental Drug Co., Pvt. Ltd., 135, Dr. A. Besant Rd., Worli, Bombay 400018.

Coronet Pharmaceuticals, 9, Shantinagar Co-op. Ind. Estate, Vakola, Santa Cruz East, Bombay 400055.

Cyanamid India Ltd., 254-D/2, Dr. A. Besant Rd., Worli, Bombay 400025.

Cymose Laboratories, 80/81, Andheri Kurla Rd., Marol Naka, Andheri East, Bombay 400059.

Dattatray Krishna Sandu Bros. (Chembur) Pvt. Ltd., Sandu Wadi, V. N. Purav Marg, Chembur, Bombay 400071.

Deltakem Pharmaceuticals, 266, Dr. A. Besant Rd., Worli, Bombay 400025.

Diamo-Chem Laboratories Pvt. Ltd., B-67, L. Tata Rd. Diamond Cinema Bldg., Bombay 400092.

Diamond Chemical Works, 301 Commerce House, 140, Medows St., Bombay 400001.

Dolwyn Pharmaceuticals, Victoria 2nd Cross Lane, Byculla, Bombay 400027.

Dr. Purohit's Pharmacy, 325, Kh. E. Station Rd., Kolhapur 416001.

Eagle Pharmaceutical Works, 114, Belgrami Rd., Match Factory Lane, Kurla West, Bombay 400070.

Earnest John & Co. Pvt. Ltd., 31C-2, Court Chambers, 35, New Marine Lines, Bombay 400020.

Economic Pharmaceuticals Pvt. Ltd., 202, Churchgate Chamber, 5, New Marine Lines, Bombay 400050.

Eisen Pharmaceutical Co. (Pvt.) Ltd., 1246 A. Apte Rd., Deccan Gymkhana, Pune 411004.

Elessons Pharmaceutical Labs., New Sun Mill Compound, Sun Mill Rd., Lower Parel, Bombay 400013.

Elite Laboratories, 122, Himalaya House, Palton Rd., Bombay 400001.

Ellis & Martin, Opp. G.P.O., Kothari Mansion, Bombay 400013.

Elys Chemical Laboratories Pvt. Ltd., D-26, Thana Belapur Rd., Post Turbhe, Sanpada Village, Thana Dist.

E. Merck (I) Pvt. Ltd., Shivsagar Estate 'A', Dr. A. Besant Rd., Bombay 400018.

Empire Chemical Works, 11-A, Agra Rd., Vikhroli, Bombay 400079.

Ethnor Ltd., Spencer Bldg., 30-A, Forjett St., Bombay 400026.

Eupharma Laboratories, Tejpal Scheme Rd., No. 5, Vile Parle East, Bombay 400057.

Fairdeal Corpn. (I) Pvt. Ltd., 42-48, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Fleming Pharmaceuticals, 30 AC, Parsi Panchayat Rd., Andheri East, Bombay 400069.

Franco-Indian Pharmaceuticals Pvt. Ltd., 20, Dr. E. Moses Rd., Bombay 400011.

Franco Italian Co., Plot 17-A.B. Govt. Ind. Estate, Charkop Rd., Kandivli, Bombay 400067.

Free India Impex Agency, 28/33, Marzaban Rd., Andheri West, Bombay 400058.

Fruitco, 20, Juhu Lane, Andheri West, Bombay 400058.

G. Amphray Labs., Sambava Chambers, Sir P. Mehta Rd., Bombay 400001.

G. Loucatos & Co., Mercantile Chambers, Graham Rd., Ballard Estate, Bombay 400001.

Gambers Laboratories, 28, Bell Bldg., 29 Sir P. Mehta Rd., Bombay 400001.

Gemini Laboratories, 5-28-116/1, Paithan Rd., Aurangabad 431001.

German Remedies Pvt. Ltd., Shivsagar Estate, Block 'A', Worli, Bombay 400018.

Glaxo Laboratories (I) Ltd., Dr. A. Besant Rd., Worli, Bombay 400018.

Goldensun Manufg. Co., Mulchand Mansion, Princess St., Bombay 400002.

Great India Ind. & Pharmaceutical Labs., 221, Jajibhoy Lane, Bombay 400012.

Heni Chemicals Ind., A-161, Main Rd., Wagle Ind. Estate, Thana 400604.

Hiena Pharma, 56, Princess St., Bombay 400002.

Himalaya Drug Co. Pvt. Ltd., Shivsagar 'E', Dr. A. Besant Rd., Bombay 400018.

Hindustan Antibiotics Ltd., Pimpri, Pune 411018.

Hindustan Pharmaceutical Works, Manisha Ind. Estate, Boisar Rd., Palghar 401404.

Hindustan Remedies, 20-A, Ajmal Rd., Vile Parle East, Bombay 400057.

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Ballard Estate, Bombay-1.
Phone : 266002.

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Phone : 582361.
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Phone: 3672.

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Ashok Chemical Ind., Station Rd., Bhavnagar 364001.

Asian Dyestuffs Ind., Kaji's Dhaba, Astodia Rd., Ahmedabad 380001.

Associated Chemical Ind., Opp. Vijay Mill, Naroda Rd., Ahmedabad 380002.

Associated Dyestuff Ind., Prajapati Bhuvan, Khadia Char Rasta, Ahmedabad 380001.

Azo Dyes Corpn., A7, New Cloth Market, Outside Raipur Gate, Ahmedabad 380022.

Bharat Chemical Ind., 5, Red Park Society, Manjalpur Rd., Vadodara 390001.

Coaltar Chemicals Manufg. Co., 55, Hirabhai Market, Ahmedabad 380022.

Chemicals & Dyestuffs Ind., Kalia Kuva, College Rd., Nadiad 387001.

Chemoacet Ind., M. Gandhi Rd., Udhna Ind. Estate, Surat Dist.

Comet Dyestuffs Pvt. Ltd., Vijaya Mills Comp., Naroda Rd., Ahmedabad 380002.

Devarsons Pvt. Ltd., Narayan Niwas, Astodia, Ahmedabad 380001.

Dye-Azo Pvt. Ltd., C-2/20, Ind. Estate, Vadodara 390003.

Griha Laxmi Rang Udyog Pvt. Ltd., 16, Nandanvan Co-op. Society, Vadodara 390005.

Indequip Chemdyes Ltd., Reid Rd., Ahmedabad 380002.

Indian Texdyes Ind., Pardi State Bldg., Outside Panchkuva Gate, Ahmedabad 380002.

Indo Dyes Ind., Swaminarayan Estate, Outside Dariapur Gate, Ahmedabad 380001.

Jeeka Ind., Astodia, Ahmedabad 380001.

Meghdoot Dyes, Jhalod, Panchamahal Dist.

Modern Dyestuff Ind., 10-20, Ind. Estate, Godhra 389001.

Modi Dyes & Chemicals Ind. B-73/74, Rd. No. 4, Udyognagar, Udhna, Surat Dist.

Navsynth Chemicals, Sarita Darshan, Ashram Rd., Ahmedabad 380009.

Premier Chemicals, Chhani Rd., Vadodara 390003.

Rainbow Texdyes Corpn., Pratapnagar Rd., Khanderao Marg, Vadodara 390004.

Shree Ban Dyes, Bansidhar House, Kankaria Rd., Ahmedabad 380022.

Shree Dira Dye-chem, Bahucharji Rd., Vadodara 390003.

Shree Kalaria Bros., Chikaniwala Estate, Gomtipur, Ahmedabad 380021.

Syndet Pvt. Ltd., Prajapati Bhuvan, Khadia Char Rasta, Ahmedabad 380001.

Textile Aniline & Chemical Co. Pvt. Ltd., Chasmawala House, Pratapnagar Rd., Vadodara, 390004.

Textile Dyestuffs Ind., 1849/2, Dhal's Pole, Astodia, Ahmedabad 380001.

Venus Ind., Munsar Rd., Surendranagar 363001.

Venus Texdyes Corpn., 7, Parikh Estate, Dabhoi Rd., Vadodara 390004.

Kerala

United Kerala Trades, Kalli Rd., Chailapuram, Calicut 673002.

Maharashtra

Ajay Dye-Chem Ind., 377, I. Rahimtulla Rd., Bombay 400003.

Amrit Chem Dye Ind., 236, Samuel St., Bombay 400003.

Anand Dyes Ind., 293 Samuel St., Bombay 400003.

Aniline Dyes & Chemical Co., 3, Gilder Lane, Bombay 400008.

Aniline Dyestuffs & Pharmaceuticals Pvt. Ltd., Mahalaxmi Chambers, 22, B. Desai Rd., Bombay 400026.

Arlabs Ltd., 6, India House, W. Hirachand Marg. Bombay 400001.

Asian Chemical Ind., Ghokate Wadi, Aarey Rd., Goregaon (East), Bombay 400063.

B. K. Dyes & Chemical Ind., 101, Jawahar Nagar, Goregaon (West), Bombay 400062.

Bharat Dyes & Chemical Co., 119, V. V. Chandan St., Vadgadi, Bombay 400003.

Bharat Texdyes Ind., Mansoor Bldg., 98, S. Gandhi Marg, Bombay 400002.

Capco Pvt Ltd., Co-op. Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.

Cauvery Chemicals Manufg. Corpn., (I), C/o Amar Trading Corpn., Rawal Chambers, Samuel St., Bombay 400003.

Central Dyes Products Pvt. Ltd., Indu Chambers, 349/53, Samuel St., Bombay 400003.

Chemi Dyes Manufrs., 15/2, Sainath Rd., Malad, Bombay 400064.

Chemicals & Allied Products, Beside Basant Pictures, Koliwada-Borla Rd., Chembur, Bombay 400074.

Chemico Intermediates Pvt. Ltd., 280, Samuel St., Bombay 400003.

Chemotex Enterprise, 348/50, Shirin Chambers, Samuel St., Bombay 400003.

Chemiequip Pvt. Ltd., 306, Green House, Green St., Bombay 400001.

Chemtech (I), Devchhaya, Block No. 3, North South Rd., No. 5, Juhu Scheme, Vile Parle (West), Bombay 400056.

Colour Industries, 265, Kalbadevi Rd., Bombay 400002.

Columbia Chemi-Colour Ind. Pvt., Ltd., 81, Dr. A. Besant Rd., Worli, Bombay 400018.

DRD Chemicals, E/1, Sonawala Estate, Goregaon (East), Bombay 400063.

Dyetex Corpn., 340-42, Samuel St., Bombay 400003.

Dye-Sento Products, No. 2, Union Co-op. Insurance Bldg., 23, Sir P. Mehta Rd., Bombay 400001.

Durga Laboratories, Haresh Chambers, Samuel St., Bombay 400003.

Dychem Manufg. Co. Pvt. Ltd., Navsari Chambers, Outram Rd., Bombay 400001.

Emulsol Industrial Products, 771, Mogal Lane, Mahim, Bombay 400062.

Gharda Chemicals Pvt. Ltd., 48, Hill Rd., Bandra, Bombay 400050.

Golden Dyes Corpn. (I) Pvt. Ltd., Bela Court, No. 2, Colaba, Bombay 400005.

Gopran Chemicals, M.I.D.C., Plot No. A-31, A-32, Dombivli Ind. Estate, Thana Dist.

Gujarat Chemical Ind., Winsol Comp., Kurla-Andheri Rd., Bombay 400070.

Hind Dyes Manufg. Co. Pvt. Ltd., Court Chambers, New Marine Lines, Bombay 400020.

Idachem Ind. Pvt. Ltd., National Insurance Bldg., 204, Dr. D. Naoroji Rd., Bombay 400001.

India Chemi-Dye Ind. 126, V. Chandan St., Bombay 400003.

Indian Chem-Colour Ind. 318, Samuel St., Bombay 400003.

International Research Laboratories, 349, Samuel St., Bombay 400003.

Jakoven Ind. Datta Mandir Rd., Bhandup, Bombay 400078.

Jasani Colour Manufg. Co., Gaya Bldg., 87/123, Masjid Bunder Rd., Bombay 400003.

Jasani Dye-Chem Ind., 264, Samuel St., Bombay 400003.

Jay Chemi-Colour Ind., 'Navjivan', 125/127, K. Sayed St., Bombay 400003.

Jeevan Products, C/o Milltex Chemical Corpn., 278, Samuel St., Bombay 400003.

Kaloomal Shorimal Sachdev Rangwala Pvt. Ltd., 270, Samuel St., Bombay 400003.

Karsandas Mavji, 273, Samuel St., Bombay 400003.

Kuldip Colour Ind., 340, Samuel St., Bombay 400003.

Mahalaxmi Textile Ind., 410, Lotus House, 33, New Marine Lines, Bombay 400001.

Mehta Dye-Chem Ind. Anant Deep, 273-77, N. Natha St., Masjid Bunder Rd., Bombay 400009.

M. K. Soorenji & Co., Nazir Bldg., 12, Calicut St., Ballard Estate, Bombay 400001.

M.P. Dye-Chem Ind., 27, V. Chandan St., Bombay 400003.

Napro Ind., Chitalsar Manpada, Thana 400607.

National Dyes, Bombay Mutual Chambers, 19/12, Hamam St., Bombay 400001.

Navind Ind., Indu Chambers, 349/53, Samuel St., Bombay 400003.

Organo Dyestuff Ind., 'B' Block, Unit No. 202-203, Plot No. 85-86, Andheri-Kurla Rd., Bombay 400059.

Oriental Intermediates (I), 107, Janjikar St., Bombay 400003.

Parekh Dyechem Ind. Pvt. Ltd., Mafatlal House, Backbay Recl., Bombay 400020.

Prakash Trading Co., 43, Laxmi Bldg., Sir P. Mehta Rd., Bombay 400001.

Pravin International Traders, Varjiwan Mansion, 60/62, S. Gandhi Marg, Bombay 400002.

Premier Dyes Corpn., 127, M. Gandhi Rd., Bombay 400001.

Ramanco Pvt. Ltd., 349, Samuel St., Bombay 400003.

Sacrone Products, 617, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Sawkar Chemical Ind. 9, New Agra Rd., Kurla, Bombay 400070.

Shankar Dyes & Chemical Ind. Sunderbaug Estate, Tulsiwara Bridge, Jogeshwari, Bombay 400069.

Shree Dyes & Chemical Ind., 35/1, Karve Rd., Pune 411004.

S. K. Kabbur Pvt. Ltd., 3, Bastion Rd., Bombay 400001.

Sterling Dyes Pvt. Ltd., 296, Samuel St., Bombay 400003.

Textachem Ind., 310-312, Samuel St., Bombay 400003.

Ultramarine & Pigments Ltd., Baldota Bhavan, 117, M. Karve Rd., Bombay 400020.

Uma Chemical Ind., 288, Samuel St., Bombay 400003.

United Chemie, 39/43, Abdul Rehman St., Bombay 400003.

United Dyechem Ind. Pvt. Ltd., 56-58, Garibdas St., Bombay 400003.

Vat Chem Ind., 6-Haresh Chambers, 313/19, Samuel St., Bombay 400003.

Vishnu Dye-Chem Pvt. Ltd., 915, Prasad Chambers, Near Roxy Cinema, Bombay 400004.

Vithaldas Dyestuffs Manufg., Co., Mody Chambers, French Bridge, Bombay 400004.

Western India Dyestuffs Corpn., 61/5, Ramchandra Lane, Marve Rd., Malad, Bombay 400064.

Winsol Chemical Ind. Pvt. Ltd., Winsol House, Kurla-Andheri Rd., Kurla, Bombay 400072.

Zenith Colour Chem Ind., 316, Samuel St., Bombay 400003.

Mysore

Bangalore Ind. Products Corpn., 60-61, Ind. Area, Yeshwantpur, Bangalore 560023.

Tamil Nadu

SKC Dyestuff & Chemical Ind., 81, N. Mudali St., Madras 600001.

West Bengal

Luxmi Narayan Dyestuff & Chemical Works Pvt. Ltd., Tollyganj, 65/1, Anwarshah Rd., Calcutta 700033.

Sricol Chemical Ind. Pvt. Ltd., 37, Armenian, Calcutta 700001.

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Madras Office : 4-5, Club House Road, Mount Road, Madras 2. Phone : 82141.

New Delhi Office : Express Building, Bahadur Shah Zaffar Marg, New Delhi 1. Phone : 278061.

EDUCATIONAL EQUIPMENT

Andhra Pradesh

Andhra Scientific Co. Ltd., Cantonment Rd., Masulipatnam 521001.

Delhi

Electrica Radios & Electronic Ind., F-28, D. B. Gupta Market, Karol Bagh, New Delhi 110005.

Kayvee Radios, 1204, Nai Wala No. 5, Karol Bagh, New Delhi 110005.

Haryana

Hargolal & Sons, Hargolal Rd., Ambala Cantt. 133001.

Oriental Science Apparatus Workshop, Alexandra Rd., Ambala Cantt. 133001.

Maharashtra

Applied Electronics Pvt. Ltd., Aplab House, Plot No. A-5, Wagle Ind. Estate, Thana 400604.

Biotech Laboratories, 759/89, Bhandarkar Institute Rd., Pune 411004.

Educational Scientific Stores, Himalaya House, Palton Rd., Bombay 400001.

Filfabs (India) Corpn., 83 C, V. Nariman Rd., Bombay 400001.

Tamil Nadu

Standard Scientific Instruments Co., 115, Brodies Rd., Madras 600001.

West Bengal

Beliss & Marcom (India) Ltd., 6, Little St., Calcutta 700016.

Bengal Chemical & Pharmaceutical Works Ltd., 168, Manicktolla Main Rd., Calcutta 700001.

Instruments & Chemicals Ltd., 4, Wood St., Calcutta 700016.

National Instruments Ltd., Jadavpur, Calcutta 700032.

ELECTRICAL ACCUMULATORS & BATTERIES

Maharashtra

Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.

ELECTRICAL AIR CONTROL EQUIPMENT

Gujarat

Alchemie Pvt. Ltd., Opp. Potalia Talao, Saraspur, Ahmedabad 380018.

Industrial Machinery Manufrs. Pvt. Ltd., Near Ahmedabad New Cotton Mills, Off. Amraiwadi Rd., Ahmedabad 380008.

Maharashtra

Bharat Electric & Engg. Corpn., 21, Dalal St., Bombay 400001.

ELECTRICAL APPLIANCES (DOMESTIC)

Delhi

Jain Industries, 483, Bartan Market, Sadar Bazar, Delhi 110006.

Nagpal Traders (Pvt.) Ltd., 1822, Chandni Chowk, Delhi 110006.

Soneeka Appliances, P-15, Green Park Ext. New Delhi 110016.

Haryana

American Universal Electric (I) Ltd., Model Town, Faridabad.

Maharashtra

Bajaj Electricals Ltd., 45-47, V. Nariman Rd., Bombay 400001.

Devidayal Stainless Steel Ind. Pvt. Ltd., Daru Khana, Reay Rd., Bombay 400010.

Homa Ind., 125-H, Andheri Kurla Rd., Bombay 400059.

Industrial Controls & Appliances Pvt. Ltd., 47A/49A, Chakla Rd., Andheri (East), Bombay 400093.

R. G. Keswani Ind., 132 Dr. A. Besant Rd., Worli Naka, Bombay 400018.

Mysore

Associated Electronic & Electrical Ind. (Bangalore) Pvt. Ltd., 113A, Brigade Rd., Bangalore 560001.

The National Radio & Electronics Co. Ltd., 36/79, Silver Jubilee Park Rd., Bangalore 560002.

Tamil Nadu

Sri Lakshmi Engineers, 123, Cross-Cut Rd., Gandhipuram, Coimbatore 641012.

West Bengal

General Electric Co. of India Ltd., 6, Chittaranjan Ave., Calcutta 700013.

Singer Sewing Machine Co., 29, Waterloo St., Calcutta 700001.

ELECTRICAL APPLIANCES (INDUSTRIAL)

West Bengal

Motor & Machinery Manufrs. Ltd., 3/1, K. B. Sen St., Calcutta 700001.

ELECTRICAL BATTERY CHARGERS AND ELIMINATORS

Delhi

Indian Technological Products, Technological House, 21, Babar Rd., New Delhi 110001.

Inter Continental Agencies Pvt. Ltd., Atma Ram Singh Mansion, 1/21, A. Ali Rd., New Delhi 110001.

Modern Trading Co. (Delhi) Pvt. Ltd., Bush House, XI/3833, Pataudi House Rd., Daryaganj Corner, Delhi 110006.

Sham Ravindra & Co., 23, New Qutub Rd., Delhi 110006.

Maharashtra

Flash Electronic Ind., Om Bldg., Room No. 22, 297, Lamington Rd., Bombay 400007.

Mysore

Electric Power Devices Co., Canara Mutual Bldg., 4, Residency Rd., Bangalore 560025.

Tamil Nadu

G. Janshi & Co., 2/163, Mount Rd., Madras 600001.

West Bengal

Metro Ind. Works, 94, B. Ghose Rd., Calcutta 700040.

ELECTRICAL CAPACITORS

Delhi

Crescent Capacitors, S-51, Janta Market, Rajouri Garden, New Delhi 110027.

Gujarat

Baroda Electronics Ind. Pvt. Ltd., 78, Chhani Rd., Vadodara 390002.

Yesha Electricals Pvt. Ltd., 54 Alkapuri, Vadodara 390005.

Maharashtra

Asian Electronics Ltd., Handloom House, 221 Dr. D. Naoroji Rd., Fort, Bombay 400001.

Gannon Electrolytics Ltd., Chartered Bank Bldg., M. Gandhi Rd., Fort, Bombay 400001.

Kemi Electro Traders, Unit-21, Prem Ind. Estate, Subash Rd., Jogeshwari (East), Bombay 400060.

Serson Ind. Pvt. Ltd., P.O. Pimpri, Pune 411018.

West Bengal

Chowdhury Ind. Corpn. Pvt. Ltd., 6, Middleton St., Calcutta 700016.

India Capacitors Ltd., 49/1 Gariahat Rd., Calcutta 700019.

ELECTRICAL DISTRIBUTION & TRANSMISSION LINE EQUIPMENT

Delhi

Allied Electric & Hardware Ind. Pvt. Ltd., 10307, Motia Khan, New Delhi 110055.

Gujarat

Bharat Lindner Pvt. Ltd., C-2/19, Ind. Estate, Vadodara 390003.

Jaibharat Poles Manufg. & Engg. Co., 4/5, Ind. Estate, Vadodara 390003.

Jhonson Electric Co., Chhani Rd., Navayard, Vadodara 390002.

Maharashtra

Bombay Switchgears, Laxmi Woollen Mills Estate, Off Haines Rd., Shakti Mills Lane, Bombay 400011.

Electro Metal Ind., 172, Nagdevi St., Bombay 400003.

East Asiatic Electric Corpn., Manhar Bldg., 187, Lohar Chawl, Bombay 400002.

Engineers' Enterprises Pvt. Ltd., Plot No. A-102, Road No. 16, Wagle Estate, Thana 400601.

Kamani Engg. Corpn. Ltd., Kamani Chambers, Ballard Est., Bombay 400001.

Kiron Textile Ind., Yusuf Bldg., M. Gandhi Rd., Bombay 400001.

Morarji Dorman Smith Ltd., Prospect Chambers, 317/21, Dr. D. Naoroji Rd., Bombay 400001.

Steelite Engg. Corpn., 8, Nanabhai Lane, Manek Mansion, Bombay 400001.

West Bengal

Bagchi Electric Co., 262, Acharya P. Chandra Rd., Calcutta 700006.

Electrical Manufg. Co. Ltd., 136, Jessore Rd., Calcutta 700055.

Hind Galvanizing & Engg. Co. (Pvt.) Ltd., 96, Garden Reach Rd., Calcutta 700023.

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ELECTRICAL EQUIPMENT FOR LARGE PLANTS

Delhi

Bharat Heavy Electricals Ltd., 5, Parliament St., New Delhi 110001.

Gujarat

Jyoti Ltd., Ind. Area, Vadodara 390003.

Madhya Pradesh

Heavy Electricals (India) Ltd., P.O. Piplani, Bhopal, 460021.

Maharashtra

Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.

Hind Rectifiers Ltd., Lake Rd., Bhandup, Bombay 400078.

Hindustan Brown Boveri Ltd., Brown Boveri House, 264-265, Dr. A. Besant Rd., Bombay 400025.

Hindustan Klockner Switchgears Ltd., Prospect Chambers, 317/21, Dr. D. Naoroji Rd., Bombay 400001.

Larsen & Toubro Ltd., L & T. House, Dougall Rd., Ballard Estate, Bombay 400001.

Siemen's India Ltd., 134A, Dr. A. Besant Rd., Worli, Bombay 400018.

Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400001.

Tamil Nadu

Hackbridge-Hewittic & Easun Ltd., 5-7, Second Line Beach, Madras 600001.

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West Bengal

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Electric Construction and Equipment Co. Ltd., 9, K. Singhee Rd., Calcutta 700002.

ELECTRICAL ELEVATORS (LIFTS)

Maharashtra

Otis Elevator Co. (India) Ltd., Gateway Bldg., Apollo Bunder, Bombay 400001.

Tamil Nadu

Best & Co. Pvt. Ltd., 13/15, North Beach Rd., Madras 600001.

West Bengal

Electric Construction and Equipment Co. Ltd., 9, K. Singhee Rd., Calcutta 700002.

ELECTRICAL FANS

Haryana

American Universal Electric (I) Ltd., Model Town, Faridabad 121001.

Maharashtra

Almonard Pvt. Ltd., off Saki-Vihar Rd., Bombay 400072.

Emco Elektra (Pvt.) Ltd., 94, Medows St., Bombay 400001.

Matchwel Electrical (I) Ltd., Off Nagar Rd., Poona 411014.

Rallis India Ltd., 21, Raveline St., Bombay 400001.

Punjab

Beegee Corpn. Pvt. Ltd., 25, Factory Area, Patiala 147001.

Tamil Nadu

Best & Co. Pvt. Ltd., 13/15, North Beach Rd., Madras 600001.

West Bengal

Bharat Electrical Ind. Ltd., 19, R. Mukherjee Rd., Calcutta 700001.

Calcutta Fan Works Pvt. Ltd., 30, Chowringhee Rd., Calcutta 700016.

Jay Engineering Works Ltd., 183-A, Prince A. Shah Rd., Calcutta 700031.

Khaitan Fans and Appliances Ltd., 18, Rabindra Sarani, Calcutta 700001.

Marshall Sons & Co. (India) Ltd., 33/1, N. Subash Rd., Calcutta 700001.

Orient General Ind. Ltd., 14, Radha Bazar Lane, Calcutta 700001.

Pandy Ind. Pvt. Ltd., 202/2, N. Subash Rd., Calcutta 700047.

ELECTRICAL GENERATORS

Gujarat

Jyoti Ltd., Ind. Area, Vadodara 390003.

Madhya Pradesh

Heavy Electricals India Ltd., P.O. Piplani, Bhopal 462021.

Maharashtra

Emco Electric (Pvt.) Ltd., 94, Medows St., Fort, Bombay 400001.

National Electrical Ind. Ltd., Ind. Estate, Lalbaugh, Bombay 400012.

Mysore

Kirloskar Electric Co. Ltd., Ind. Suburb, Rajaji Nagar, Bangalore 560010.

Punjab

Beegee Corpn., 25, Factory Area, Patiala 147002.

West Bengal

British India Electric Construction Co. Ltd., 21, N. Subash Rd., Calcutta 700001.
Indian National Diesel Engine Co. Ltd., Hall and Anderson Bldg., Park St., Calcutta 700016.
J. Stone & Co. (I) Pvt. Ltd., 16, Taratalla Rd., Calcutta 700053.
Motor & Machinery Manufrs. Ltd., 3/1, K. B. Sen St., Calcutta 700007.

ELECTRICAL LAMPS & ACCESSORIES

Delhi

Auto Lamps Ltd., 6, Alipur Rd., Delhi 110006.
Neonlite Manufg. Co., 21, Darya Ganj, Delhi 110006.
Phillips India Ltd., 68, Najafgarh Rd., New Delhi 110015.
Sylvania & Laxman Ltd., 68/2, Najafgarh Rd., New Delhi 110015.

Kerala

Toshiba Anand Lamps Ltd., XXIII/376, M. Gandhi Rd., Ernakulam, Cochin 682011.

Maharashtra

Ajit Radio Corpn. Pvt. Ltd., 49/51, Vithaldas Rd., Lohar Chawl, Bombay 400002.
Ajit Wire Ind. Pvt. Ltd., 58, Sir M. Vissanji Rd., Andheri (East), Bombay 400059.
B. Chowdhuri & Co., Indian Globe Chambers, Fort St., Bombay 400001.
Cielmac Pvt. Ltd., 35, Mahal Ind. Estate, Mahakali Caves Rd., Bombay 400093.
Crafts-De-Fluorescent, 8 Sitafalwadi, Mount Rd., Mazagaon, Bombay 400010.
Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.
Ellora Art Ind., Shreeji Bhuvan, Lohar Chawl, Bombay 400002.
Glolite Electricals, Mazagaon, Bombay 400010.
Hindco Lighting Ind. Ltd., Hindlight House, Subash Nagar, Jogeshwari (East), Bombay 400060.
Lamp Caps and Filaments Ltd., 32, R. Dadaji St., Bombay 400001.
Markcel Pvt. Ltd., Shreeji Bhuvan, Lohar Chawl, Bombay 400002.
Premier Lighting Ind. Pvt. Ltd., Jhaveri Bldg., 348-352, A. Rehman St., Bombay 400003.

Mysore

Metal Lamp Caps India Pvt. Ltd., No. 2, Murphy Rd., Ulsoor, Bangalore 560008.
The Mysore Lamp Works Ltd., Old Tumkur Rd., P.O. Science Institute, Bangalore 560012.
The Neon Signs (Mysore) Pvt. Ltd., Sri Krishna Bldg., Bangalore 560009.

Tamil Nadu

International Lighting Ind., 26, Arumugam St., Madras 600001.

Uttar Pradesh

Hind Lamps Ltd., Shikohabad 205135.

West Bengal

Associated Electricals Ind. (I) Ltd., Crown House, 13, R. Mukherjee Rd., Calcutta 700001.
Bharat Electricals Ind. Ltd., 19, R. Mukherjee Rd., Calcutta 700001.
Dazzle Products Ltd., 138, B. R. B. Basu Rd., Calcutta 700001.
Deepsun Ind. Corpn., 36, Ezra St., Calcutta 700001.
Electric Lamps (India) Pvt. Ltd., 1, Tartolla Rd., P.O. Garden Reach, Calcutta 700024.
J. K. Dey & Sons, 13, Old China Bazar St., Calcutta 700001.
Jayanta Electric Lamp Works, 33/4, M. Pukur Rd., Calcutta 700001.
Lite Eng. Ind., 19, Pollock St., Calcutta 700001.

ELECTRICAL LAUNDRY APPARATUS

Maharashtra

Bajaj Electricals Ltd., 45-47, V. Nariman Rd., Bombay 400001.

ELECTRICAL METERS & ELECTRICAL MEASURING INSTRUMENTS

Andhra Pradesh

Andhra Pradesh Electrical Equipment Corpn., Basant Rd., Sanatnagar, Hyderabad 500018.
Instruments Technique Laboratory, B-2, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Delhi

Dass Hitachi Pvt. Ltd., 21-A, Janpath (Windsor Place), New Delhi 110001.
Electrical Instrument Co., 20, Friends Colony, Grand Trunk Rd., Shahdara, Delhi 110032.
Meters and Instruments (Pvt.) Ltd., 4/90, Connaught Circus, New Delhi 110001.
Precision Instrument Manufg. Co., 1254, Kashmiri Gate, Delhi 110006.

Maharashtra

Electro-Equipments Corpn. Ltd., 303-304, L. B. Shastri Marg, Mulund, Bombay 400080.
Electronic Products, Bombay Mutual Annexe, Gunbow St., Bombay 400001.
Enlec Enterprises, Seksaria Chambers, 139, N. Master Rd., Bombay 400001.
Gyro Laboratories Pvt. Ltd., 8, Gazdar St., Thakurdwar, Bombay 400002.
Industrial Meters Pvt. Ltd., Choksey Chambers, Zaveri Bazar, Bombay 400002.
The Motwane Manufg. Co. Pvt. Ltd., 127, M. Gandhi Rd., Fort, Bombay 400001.
Mysore Electrical Measuring Instruments, Unit No. 202-C, Ind. Estate, Ghatkopar, Bombay 400086.
National Supply & Dist. Agency, 11, Jay Mahal, Lohar Chawl, Bombay 400002.

Nippen Electrical Inst. Co., 12-A, Marol Maroshi Rd., Andheri (E), Bombay 400059.
Udeyraj & Sons, 158, K. M. Sharma Marg, Lohar Chawl, Bombay 400002.

Mysore

British Physical Lab. India Pvt. Ltd., 28 K. Hanumanthiah Rd., Bangalore 560027.

West Bengal

Sett and De, 16, G. Chandra Ave., Calcutta 700013.
Universal Electrics Ltd., 15, India Exchange Place, Calcutta 700001.

ELECTRICAL MOTORS

Andhra Pradesh

Neeta Enterprises Pvt. Ltd., A-3, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.
Shriram Refrigeration Ind. Ltd., P.O. Balanagar Township, Hyderabad 500037.

Delhi

Bharat Heavy Electricals Ltd., 5, Parliament St., New Delhi 110001.

Gujarat

Electrical Engg. Enterprise, Plot No. 4/5, G.I.D.C. Estate, Naroda, Ahmedabad Dist.
Jyoti Ltd., Ind. Area, Vadodara 390003.

Haryana

American Universal Electric (I) Ltd., Model Town, Faridabad 121001.

Kerala

Kerala Electrical & Allied Engg. Co. Ltd., P. B. 8, Kundara, Quilon, 691001.

Madhya Pradesh

Heavy Electricals (India) Ltd., P.O. Piplani, Bhopal 462002.

Maharashtra

Arun Engg. Ind. Pvt. Ltd., Shantinagar Co-op. Ind. Estate, Vakola, Santa Cruz (East), Bombay 400055.
Asmopal Engg. Co., Sunder Mahal, 141, N. Subash Rd., Bombay 400020.
Bharat Bijlee, Udyognagar, Near King's Circle Rly. Stn., Bombay 400022.
Bharat Electric & Engg. Corpn., 21, Dalal St., Fort, Bombay 400001.
Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.
Emco Electra (Pvt.) Ltd., 94, Meadows St., Bombay 400001.
Engineering Products Ltd., Jogeshwari Estate, S. Vivekanand Rd., Bombay 400060.
Law Kim, 16, Horniman Circle, Bombay 400001.
Matchwel Electricals (India) Ltd., Off Nagar Rd., Pune 411014.
Mather Greaves Ltd., Chinchwad, Pune 411019.
Precision Inst. Corpn., Mangrol Mansion, Nos. 2 & 3, Gunbow St., Bombay 400001.
Siemens India Ltd., 134-A, Dr. A. Besant Rd., Worli, Bombay 400018.

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Mysore

Kirloskar Electric Co. Ltd., Ind. Suburb, Rajaji Nagar, Bangalore 560010.
NGEF Ltd., Byappanahalli, Off Old Madras Rd., Bangalore 560001.

Punjab

Beegee Corpn. (Pvt.) Ltd., 25, Factory Area, Patiala 147002.

Tamil Nadu

Best & Co., Pvt. Ltd., 13/15, North Beach Rd., Madras 400001.

West Bengal

Cyma Electric Works, 35, Dent Mission Rd., Calcutta 700023.
Electric Construction & Equipment Co. Ltd., 9, K. Singhee Rd., Calcutta 700002.
General Electric Co. of India Ltd., Magnet House, 6, Chittaranjan Ave., Calcutta 700013.
J. Stone & Co. (India) Pvt. Ltd., 16, Taratalla Rd., Calcutta 700053.
Motor & Machinery Manufrs. Ltd., 3/1, K. B. Sen St., Calcutta 700007.
Nistarini Electric Co. (Pvt.) Ltd., 48/1, Grand Trunk Rd., Baidyabati, Hooghly Dist.
Orient General Ind. Ltd., 14, Radha Bazar Lane, Calcutta 700001.

ELECTRICAL PUMPS

Andhra Pradesh

Neeta Enterprises (Pvt.) Ltd., A-3, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Gujarat

Jyoti Ltd., Ind. Area, Vadodara 390003.

Haryana

The Oriental Engg. Works (Pvt.) Ltd., Ind. Area, Yamuna Nagar, Ambala Dist.

Oswal Electricals, 49, Ind. Area, Faridabad 121001.

Kerala

Kerala Electrical & Allied Engg. Co. Ltd., Kundara, Quilon, 691001.

Maharashtra

Airauto Engg. Co., 37/38, Gala Ind. Estate, Mulund (West), Bombay 400080.

Arjan Singh Khemchand, 118, Commerce House, Medows St., Bombay 400001.

Bharat Electric & Engg. Co., 21, Dalal St., Bombay 400001.

The Crescent Iron & Steel Corpn. Ltd., Ind. Estate, Lalbaug, Bombay 400012.

Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.

Flo-Rite Engg. Corpn., 162, S. Bapat Marg, Opp. Phoenix Mills, Lower Parel, Bombay 400013.

Nigo's Corpn., Patel Comp., 48B, Lamington Rd., Near Nair Hospital, Bombay 400008.

Shukla-Manseta Ind. Pvt. Ltd., 24-B, Hamam St., Bombay 400001.

Sigil (India) Services Pvt. Ltd., P.O. Box No. 952, Bombay 400001.

Todi Ind. Pvt. Ltd., Todi Estates, Lower Parel, Bombay 400013.

KSB Pumps Ltd., 104th Milestone, Bombay-Pune Rd., Pimpri, Pune 411018.

Tamil Nadu

Best & Co. Pvt. Ltd., 13/15, North Beach Rd., Madras 600001.

The British & Eastern Eng. Co., No. 16, General Patters Rd., Madras 600002.

West Bengal

Associated Electrical Ind. (I) Ltd., Crown House, 13, R. Mukherjee Rd., Calcutta 700001.

British Electrical & Pumps Pvt. Ltd., 1-1B, Mission Row, Calcutta 700001.

Electric Construction & Equipment Co. Ltd., 9, K. Singhee Rd., Calcutta 700002.

Indian National Diesel Engine Co. Ltd., Hall and Anderson Bldg., Park St., Calcutta 700016.

Lloyds Engg. Co., 3, Amratolla St., Calcutta 700001.

Plant & Machinery, 3, Mangoe Lane, Calcutta 700001.

ELECTRICAL REFRIGERATORS, AIRCONDITIONERS AND RECTIFIERS

Andhra Pradesh

The Hyderabad Allwyn Metal Works Ltd., Sanat Nagar, Hyderabad 500018.

Shriram Refrigeration Ind. Ltd., P.O. Balanagar Township, Hyderabad 500037.

Delhi

Airfrige Ind., 10/65, Kirti Nagar Ind. Area, New Delhi 110015.

Delhi Refrigeration Corpn., 'Sahdeva House', 3819/20, David St., Darya Ganj, Delhi 110006.

Electronics Ltd., 12-A, Connaught Place, New Delhi 110001.

Freezeking Ind. Pvt. Ltd., 7/17, Kirti Nagar, New Delhi 110015.

Himalaya Manufg. & Sales Co., Park Mansion, N. Subash Marg, Delhi 110006.

Indian Refrigeration Ind., 7/15, Kirti Nagar, New Delhi 110015.

Industrial Refrigeration Corpn., B-35, South Ext. Part I, New Delhi 110049.

Kelvinator of India Ltd., 19A, Alipore Rd., Delhi 110006,

Lloyd Electric & Engg. Co., Punj House, M-13, Connaught Circus, New Delhi 110001.

Nath Traders (India), HS/14, Kailash Colony, New Delhi 110048.

National Refrigeration Works, 3, Subash Marg, Darya Ganj, Delhi 110006.

Virmani Refrigeration & Cold Storage Pvt. Ltd., E/2, Jhandewalan Ext., New Delhi 110055.

Gujarat

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Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400001.

Punjab

Beegee Corpn. Pvt. Ltd., 25, Factory Area, Patiala 147002.

Tamil Nadu

Hydrogen Pvt. Ltd., 1/155, Mount Rd., Madras 600002.

West Bengal

Air Conditioning Corpn. Ltd., 17 Taratolla Rd., Calcutta 700053.
American Refrigerator Co. Ltd., 13/C, Russel St., Calcutta 700016.
Electric Construction & Equipment Co. Ltd., 9, K. Singhee Rd., Calcutta 700002.
General Electric Co. of India Pvt. Ltd., Magnet House, 6, Chittaranjan Ave., Calcutta 700013.
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Paharpur Cooling Towers Pvt. Ltd., 1-B, Judges Court Rd., Calcutta 700027.

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Andhra Pradesh

Switchgear Manufg. Co., C 4 & 5, Ind. Estate, Sanatnagar, Hyderabad 500018.

Delhi

Bharat Heavy Electricals Ltd., 5, Parliament St., New Delhi 110001.
Controls & Switchgear Co., 222-Okhla Ind. Estate, Phase III, New Delhi 110020.

Gujarat

Jyoti Ltd., Ind. Area, Vadodara 390003.

Haryana

Cutler Hammer India Ltd., 20/4, Mathura Rd., Faridabad.

Kerala

Aluminium Ind. Ltd., No. 1, Ceramic Factory Rd., Kundara.
United Electrical Ind. Ltd., Pallimukku, Quilon 691001.

Madhya Pradesh

Heavy Electricals India Ltd., P.O. Piplani, Bhopal 462021.

Maharashtra

Ajmera Ind. & Engg. Works, 20/48, Lohar Chawl, 9, Jai Mahal Estate, Bombay 400002.
Balson, 52/59, Annapurna, 46 Tilak Rd., Ghatkopar, Bombay 400077.
Bhogilal Fabricators Pvt. Ltd., Steelmade Ind. Estate, Bldg. No. 1, Shed No. 2, Marol Maroshi Rd., Andheri (E.), Bombay 400059.
Bombay Insulated Cables & Wires Co., 10, Himalaya House, 79, Palton Rd., Bombay 400001.
Dattatraya Ind., 691/A, Pune-Satara Rd., Pune 411009.
Hindustan Brown Boveri Ltd., Brown Boveri House, 264-265, Dr. A. Besant Rd., Bombay 400025.
Hindustan Klockner Switchgear Ltd., Prospect Chambers, 317/21, Dr. D. Naoroji Rd., Bombay 400001.
Kiron Textile Ind., Yusuf Bldg., M. Gandhi Rd., Bombay 400001.
Larsen & Toubro Ltd., L & T House, Dougall Rd., Ballard Estate. Bombay 400001.
Metro Electric & Mechanical Engg. Works, Hormus Bldg., Sleater Rd., Bombay 400007.
National Supply and Distributing Agency, 11, Jay Mahal, Lohar Chawl, Bombay 400002.
R. G. Keswani Ind., 132, Dr. A. Besant Rd., Worli Naka, Bombay 400018.
Reunion Engg. Co. Pvt. Ltd., Amar Bldg., Sir P. Mehta Rd., Bombay 400001
Siemens Ltd., 134 A, Dr. A. Besant Rd., Worli, Bombay 400018.
Tata, Merlin & Gerin Ltd., Raj Mahal, 84, V. Nariman Rd., Bombay 400001.
Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400001.

Mysore

NGEF Ltd., Byappanahalli, Off Old Madras Rd., Bangalore 560001.
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Punjab

Beegee Corpn., 25, Factory Area, Patiala 147002.

Tamil Nadu

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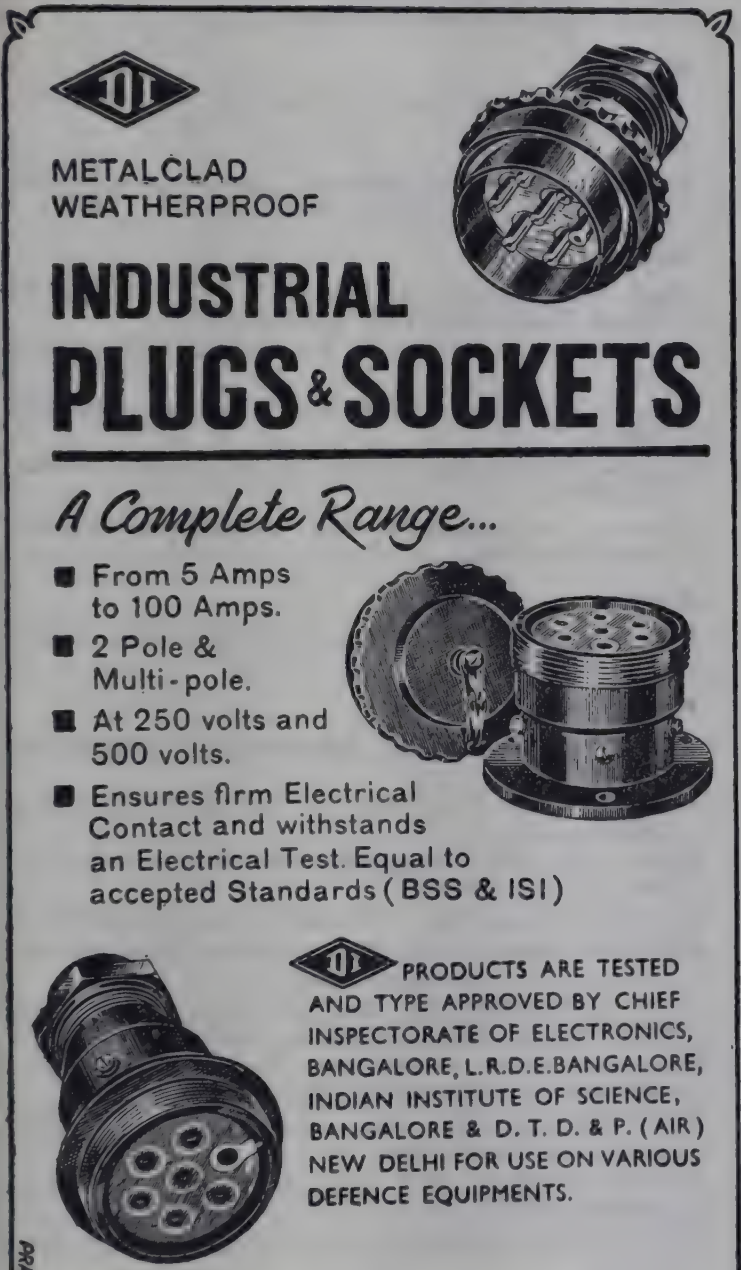

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British India Electric Construction Co. Ltd., 21, N. Subash Rd., Calcutta 700001.
Electric Construction & Equipment Co. Ltd., 9, K. Singhee Rd., Calcutta 700002.
General Electric Co. of India Pvt. Ltd., Magnet House, 6, Chittaranjan Ave., Calcutta 700013.
Hooghly Marine and Engg. Co., 27/2 C, Strand Rd., Calcutta 700001.
Mookken Bros., 15/2, Armenian St., Calcutta 700001.
The Techmech (India), 7, Swallow Lane, Calcutta 700001.

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General Radio Corpn., 2/2, Jhandewalan Ind. Scheme, New Delhi 110055.
National Radio Corpn., 2 DLF Najafgarh Rd., New Delhi 110015.
Singh Radio Co. (India) Pvt. Ltd., 21, Darya Ganj, Delhi 110006.
Telefunken (India) Ltd., G-4, N.D.S.E., Part I, New Delhi 110049.
Television Service Corpn., G-7, Hauz Khas, New Delhi 110016.
Television & Sound Centre, 16/1022, Main Arya Samaj Rd., Karol Bagh, New Delhi 110005.
Televista Electronics (Pvt.) Ltd., 293, Okhla Ind. Estate, New Delhi 110020.
Weston Electronics (Pvt.) Ltd., 244, Okhla Ind. Estate, New Delhi 110020.

Gujarat

Mac Electronics, Shahpur, Bahai Centre, Ahmedabad 380001.
Parry Engg. & Electronics Pvt. Ltd., Opp. Jain Temple, M. Gandhi Rd., Ahmedabad 380001.
Power Cables Pvt. Ltd., 40, Alkapuri, Vadodara 390005.
Television & Components Pvt. Ltd., Plot No. 57, GIDC Ind. Township, Naroda, Ahmedabad.

Mysore

Associated Electronic & Electrical Ind. (Bangalore) Pvt. Ltd., 113-A, Brigade Rd., Bangalore 560001.
Electronic Devices, Andrews Bldgs., M. Gandhi Rd., Bangalore 560001.

Maharashtra

Afco Ltd., 9, Wallace St., Bombay 400001.
Aarjay & Co., Walker House, 381, Dr. Bhadkamkar Rd., Bombay 400007.
Bhatty Electronics Corpn., 98, Ind. Estate, Kandivli West, Bombay 400067.
Modern Electronic Products, 6/7, Mahal Ind. Estate, Maha Kali Caves Rd., Andheri (East), Bombay 400069.

Murphy India Ltd., Dr. Shirodkar Rd., Off Hospital Ave., Parel, Bombay 400012.
Polestar Electronics Pvt. Ltd., 98, Ind. Estate, Kandivli West, Bombay 400067.
Radio Electric Pvt. Ltd., Lamington Chambers, Dr. Bhadkamkar Rd., Bombay 400004.
Telecom Ind. Pvt. Ltd., 61, Dr. S. S. Rao Rd., Parel, Bombay 400012.

West Bengal

Esdee Engg. Works, 50/A, Kankurgachi Rd., Calcutta 700054.
General Electric Co. of India Pvt. Ltd., Magnet House, 6, Chittaranjan Ave., Calcutta 700013.
Guest, Keen, Williams Ltd., Jeevan Deep, 1, Middleton St., Calcutta 700016.
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Voice Master Radio Corpn., 159/1B, R. Behari Ave., Calcutta 700029.

Tamil Nadu

G. Jan.hi & Co., 2/163, Mount Rd., Madras 600002.

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Maharashtra

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Bihar

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Delhi

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Gujarat

Amul Transmission Line Hardware Pvt. Ltd., Parikh Estate, Dabhoi Rd., Vadodara 390004.
Ashok Mactools, Rd. No. 12, Udyognagar, Udhna, Surat Dt.
Johnson Electric Co., Fatehganj, Chhani Rd., Vadodara 390002.
Transasia Transformers Pvt. Ltd., 86, Ind. Estate, Naroda, Ahmedabad.
Voltamp Transformers Pvt. Ltd., Bavia, Taluka Dholka, Ahmedabad Dist.

Kerala

Kerala Electric & Allied Engg. Co. Ltd., Kundara, Quilon 691001.

Maharashtra

Apex Electricals Pvt. Ltd., 4-Padam No. 1, Pedder Rd., Bombay 400026.
Bajaj Electricals Ltd., 45-47, V. Nariman Rd., Bombay 400001.
Bharat Bijli Ltd., Udyognagar, Near King's Circle Rly. Stn., Bombay 400022.
Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.
Emco Transformers Ltd., Ballard House, Mangalore St., Ballard Estate, Bombay 400001.
G. B. Advani-Oerlikon Electrodes Pvt. Ltd., Radio House, 6, Rampart Row, Bombay 400001.
Hindustan Brown Boveri Ltd., Brown Boveri House, 264-265, Dr. A. Besant Rd., Bombay 400025.
Kirti Electricals Pvt. Ltd., Shembekar Ind. Comp., Chinchwad, Pune 411019.
National Electrical Ind. Ltd., Ind. Estate, Lalbaug, Bombay 400012.
The National Electrical Ind. Ltd., 5/4, Nagar Rd., Pune 411014.
Star Delta Electricals, 135A, M. Azad Rd., Bombay 400008.

Mysore

Electric Power Devices Co., Canara Mutual Bldg., 4, Residency Rd., Bangalore 560025.
Government Electric Factory, Mysore Rd., Bangalore 560026.
Kirloskars Electric Co. Ltd., Ind. Suburb, Rajajinagar, Bangalore 560010.
NGEF Ltd., Byappanahalli, Off Old Madras Rd., Bangalore 560001.
Swicon Pvt. Ltd., 20, Moyenville Rd., Langford Town, Bangalore 560025.

Punjab

Beegee Corpn., Pvt. Ltd., 25, Factory Area, Patiala 147002.

Tamil Nadu

Hackbridge Hewittic & Easun Ltd., 5-7, Second Line Beach, Madras 600001.
Transformers and Switchgear Ltd., 116/117, Moore St., Madras 600001.

West Bengal

Andrew Yule & Co. Ltd., 77, Park St., Calcutta 700016.
Associated Electrical Ind. Ltd., Crown House, 13, R. N. Mukherjee Rd., Calcutta 700001.
Biecco Lawrie Ltd., 21, N. Subash Rd., Calcutta 700001.
British India Electric Construction Co., 21, N. Subash Rd., Calcutta 700001.
East India Electricals, 38, N. Subash Rd., Calcutta 700001.
Electric Construction and Equipment Co. Ltd., 9, K. Singhee Rd., Calcutta 700002.
Elvoc Pvt. Ltd., 36, Panditia Rd., Calcutta 700029.
General Electric Co. of India Ltd., Magnet House, 6, Chittaranjan Ave., Calcutta 700013.
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Andhra Pradesh

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Maharashtra

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Mysore

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Gangappa Cables Ltd., Uppal Rd., Hyderabad 500039.
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Delhi

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Delton Cable Ind. Pvt. Ltd., 'Delton House', 24 Daryaganj, Delhi 110006.
Elite Cable Manufg. Co., 308/14, Shazadabagh, Old Rohtak Rd., Delhi 110007.
Evershine Electrical Works (I), 10/60, Ind. Area, Kirti Nagar, New Delhi 110015.
Kaycee Electricals, 1854, Bhagirath Palace, Delhi 110006.
Lakshmi Cable Co., A/6, Jhilmil Tahirpur Ind. Area, Grand Trunk Rd., Shahdara, Delhi 110032.
The Premier Cable Co. Ltd., 14/15-F, Connaught Place, New Delhi 110001.
Siemens India Ltd., B-5, Jangpura, Mathura Rd., New Delhi 110014.
Victor Cables Corpn., 5775, Sadar Bazar, Delhi 110006.

Gujarat

General Electricals and Mechanical Corpn., Ind. Estate, Vadodara 390007.
Mahendra Electricals Ltd., Kamla Mission Rd., Nadiad 387001.
Power Cables Pvt. Ltd., 40, Alkapuri, Vadodara 390001.

Haryana

Skyline Electricals (India), 43 Ind. Area, Faridabad 121001.

Kerala

Aluminium Ind. Ltd., No. 1, Ceramic Factory Rd., Kundara.
Premier Cable Co. Ltd., Karukutty, Angamally, Ernakulam 682001.

Madhya Pradesh

Universal Cables Ltd., P.O. Birla Colony, Satna 485001.

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Maharashtra

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Bharat Insulation Co., Plot No. B-32, Rd. no. 18, Wagle Ind. Estate, Thana 400604.

Cable Corpn. of India Ltd., Laxmi Bldg., 6, Ballard Rd., Bombay 400001.

Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.

Devidayal Cable Ind. Ltd., Reay Rd., Bombay 400010.

Henley Cable India Ltd. :Henley House, Ballard Estate, Bombay 400001.

Hindustan Transmission Products, Shree Niketan, 'F' Block, Shiv Sagar Estate, Dr. A. Besant Rd., Worli, Bombay 400018.

Markeel Pvt. Ltd., Shreeji Bhavan, Lohar Chawl, Bombay 400002.

Oriental Power Cables Ltd., Radio House, Apollo Pier Rd., Bombay 400001.

Record Electricals Pvt. Ltd., 'Record House', 30, Ind. Estate, M. Gandhi Rd., Kandivli, (West), Bombay 400067.

Shakti Insulated Wires Pvt. Ltd., 22, Apollo St., Bombay 400001.

Shamsher Sterling Cable Corpn. Ltd., Vaswani Mansion, D. Vacha Rd., Bombay 400001.

Siemens India Ltd., 134-A, Dr. A. Besant Rd., Worli, Bombay 400018.

Special Steels Ltd., New India Centre, 17, Cooperage Rd., Bombay 400001.

Tenby India (Pvt.) Ltd., Hamam House, A. Doshi St., Bombay 400001.

Todi Ind. Pvt. Ltd., Todi Estates, Lower Parel, Bombay 400013.

Mysore

Aluminium Cables & Conductors, A-82, Ind. Estate, Rajajinagar, Bangalore 560044.

Deepak Insulated Cable Corpn. Ltd., Industry House, 45, Fair Field Rd., Bangalore 560001.

Mohan Aluminium Pvt. Ltd., P.O. Virgonagar, Bangalore 560049.

Mysore Wire & Metal Ind., 13, IVth Cross, Magadi Rd., Bangalore 560023.

Orissa

Hira Cable Works, P.B. No. 78, Bhubaneswar 751001.

Punjab

Industrial Cables (India) Ltd., Ind. Area, Rajpura 147001.

West Bengal

Electrical Ind. Corpn., 49/1 Gariahat Rd., Calcutta 700019.

Everlite Insulating Ind. Pvt. Ltd., 137, B. Roy Rd., West, Calcutta 700061.

Express Cables Pvt. Ltd., 51, Stephen House, 4, B.B.D. Bagh, Calcutta 700001.

Fort Gloster Ind. Ltd., 21, Strand Rd., Calcutta 700001.

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Instrument Techniques Laboratory, B-2, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Varicon Pvt. Ltd., B-37, Ind. Estate, Sanatnagar, Hyderabad 500001.

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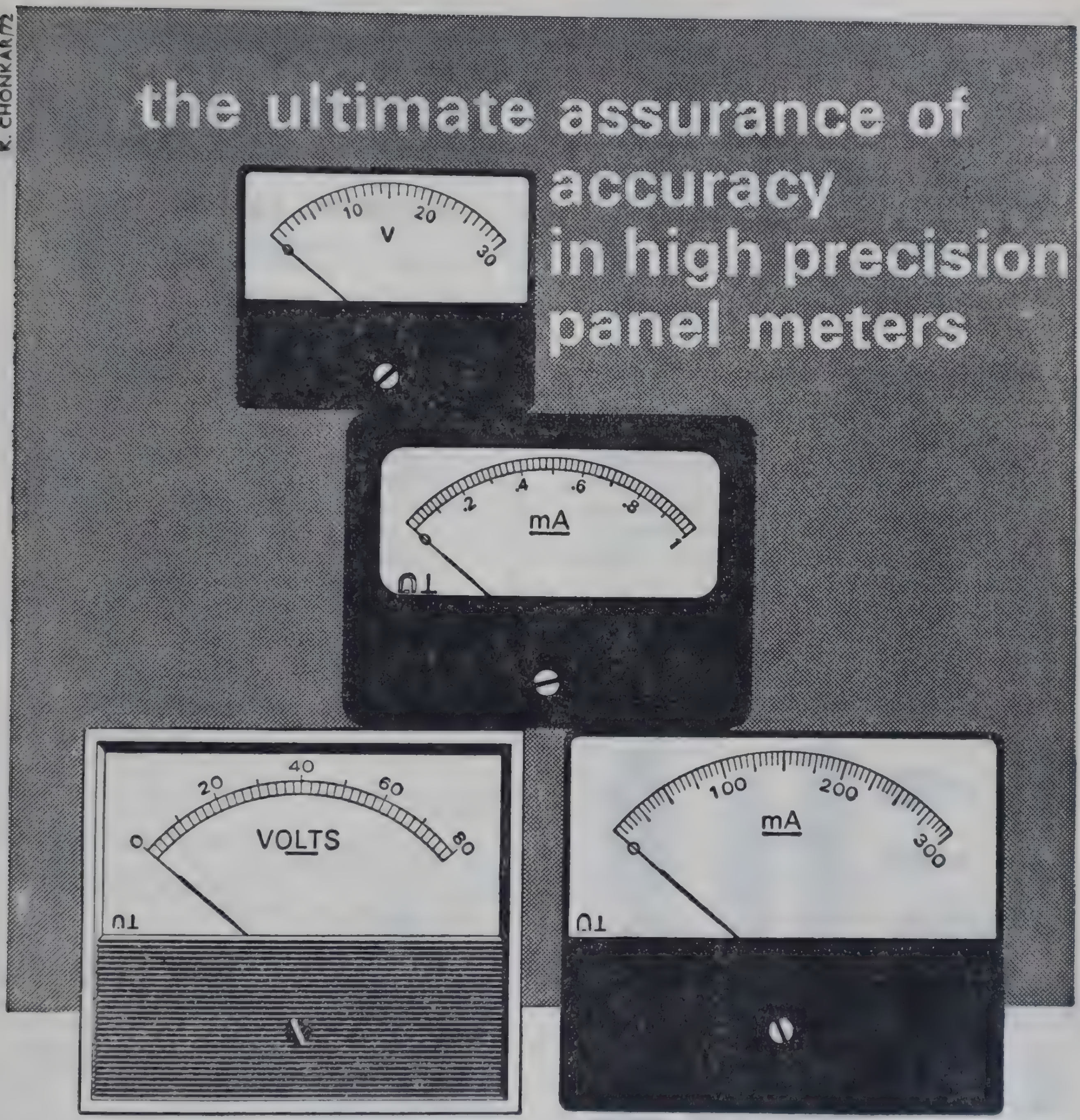
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Kerala

Acquatic Food & Allied Products, Jew Town, Cochin 682002.

Blue Bay Fisheries Pvt. Ltd., Jew Town, Cochin 682002.

Canning Ind. (Cochin) Ltd., Trichur 680005.

Castle Rock Fisheries, Palluruthy, Cochin 682001.

Cherian & Kuruvilla, Alissery Ward, Alleppey 688001.

Choice Canning Co., 19/4, Kochangadi, Cochin 682005.

Coastal Food Packers Factory, Palluruthy, Cochin 682005.

Cochin Fish Canning Co., Near Aroor Bridge, Cochin 682005.

Combined Sea Food, Narakkal.

Continental Fisheries, 19/128, Opp. Central Warehouse, Cochin 682005.

Darlco Canning Ltd., Mocspet Rd., Trichur 680005.

Eastern Marine Products, Kuthirapanthy Ward, Alleppey 688001.

Esbel Products, Tirumala, Trivandrum 695001.

Fisherman Sales Orgn. (INP) Ltd., Neendakara, Chavara.

Four Seasons Fisheries Co. 29/18, Near Syrian Church, Palluruthy, Cochin 682006.
High Seas Fishing Enterprises, 28/825, Kochupalli Rd., Thoppumpady, Cochin 682005.
Ibrahim Mohammed Hashim & Bros., Jew Town, Cochin 682001.
India Sea Foods, West Hill, Calicut 673005.
Indian Seafoods, Kannamally, Cochin 682001.
Indo Marine Agencies (Kerala) Pvt. Ltd., Kochangadi Rd., Cochin 682005.
Indo Norwegian Project, Chavara.
International Canning Co., Alwaye 683101.
International Fisheries, Karuvelipady, Cochin 682005.
International Fisheries Pvt. Ltd., Dennis Papli, 17-375-A, Chullickal, Cochin 682005.
Island Club Canning Co., Wellingdon Island, Cochin 682003.
Island Sea Foods Pvt. Ltd., Govt. Ice Cold Storage Factory, Cochin 682005.
Jupiter Fisheries, 10/439, Alathukutty Rd., Cochin 682005.
K. E. Kesavan & Co., P.O. Box No. 118, Cochin 682005.
Kerala Fisheries Corpn. Ltd., XVII/855-856, Shanmugam Rd., Ernakulam 682001.
Kerala Food Packers, Nadakadavu, Cochin 682005.
Keralakalpa Ind. Pvt. Ltd., Jew Town, Cochin 682001.
Kerala Sea Foods, Neendakara Chavara.
Kozhikode Mechanised Fishermens' Co-op. Society Ltd., 3/984-A, Vellayil, Calicut 673011.
Malabar Ocean Products Co., 12/324, Jew Town, Cochin 682002.
Malbar Pack Marines, 4/765, Moonalingal, Calicut 673001.
New India Fisheries Ltd., 22/235, Rameshwaram Lane, Cochin 682002.
Ocean Sea Foods, Narakkal.
Paramount Fisheries, XXVII/1539, Palluruthy, Cochin 682006.
Parur Canning Ind. Pvt. Ltd., Parur.
Pothen Joseph & Sons, Chungam, Alleppey 688001.
Prime Fisheries, Moolayapeedika, Near Central Warehouse, Cochin 682002.
Sea Food Exporting Co., 634, Pilithottam, Quilon 691006.
Southern Fisheries Corpn , Cochin 682005.
Splar Fisheries Canning Factory, Nampiapuram Rd., Palluruthy, Cochin 682006.
Travancore Cochin Prawn Curers Co-op. Mktg. Society Ltd., Cochin 682005.
Universal Ice Plant & Fisheries Corpn. Thottapally.
West Coast Sea Foods, 18/160, Kochangadi, Cochin 682002.
XL Sea Foods, 27/479-A, Thoppumpady, Cochin 682005.

Maharashtra

James Smith & Co., Shriniwas House, Waudby Rd., Bombay 400001.
Pure Products & Madhu Canning Ltd., Sion Trombay Rd., Bombay 400084.

Mysore

Canara Sea Food Packers, Govt. Ice Factory Bldg., Hoige Bazar, Mangalore 575001.
Cornet Canning Co., Raj Mandir, Malpe, S. Kanara.
Madonna Canning Co., Mukka, Surathkal, Mangalore 575001.

Tamil Nadu

Coastal Sea Foods, 69, Barthur St., Kilakarai.
Indo Marine Agencies (Tamil Nadu), 45, M. Labhai St., Madras 600011.

FRUIT AND VEGETABLE CANNING

Andhra Pradesh

East Coast Food Products Ltd., Tadepalli, Guntur Dist.
Govt. Fruit Preservation Factory, Anantharajupet, Cuddappah Dist.
Hyderabad Food Preservers Ind. Co-op. Works Centre Ltd., Nizamshahi Rd., Hyderabad 500001.
India Fruits Pvt. Ltd., Kadiam, E. Godavari Dist.
Rai & Sons Pvt. Ltd., Juice Lane, Kukatpalli, Hyderabad 500034.
Salchar Food Products, 35, Panjagatta, Hyderabad 500034.
South India Food Products, 459, Begum Bazar, Hyderabad 500012.

Delhi

Ambrosia Food & Canning Ind., 23/5C, Rohtak Rd., New Delhi 110005.
Bombay Food Products, 5-641, Mehrauli, New Delhi 110030.
Depro Foods Ltd., B-6, Defence Colony, New Delhi 110024.
Edward Keventers Pvt. Ltd., S. Patel Rd., New Delhi 110011.
Essex Farms Pvt. Ltd., 4, Mehrauli Rd., New Delhi 110030.
Excelsior Food & Chemical Ind., 4, Paharganj Lane, New Delhi 110001.
Food Specialities Ltd., 3, B. Shah Zafar Marg, New Delhi 110001.
Hamdard Wakf Laboratories India, Lal Kuan, Delhi 110006.
Harnarain Gokalchand, Khari Baoli, Delhi 110006.
Healthways Food Products Co., Sadar Thana Rd., Delhi 110006.
Kaytis Food Preservers, New Delhi 110037.
Midland Fruit & Veg. Products India Ltd., Okhla Ind. Estate, New Delhi 110020.
Mohan Ghee Laboratories, Gurdwara Rd., Karolbagh, New Delhi 110005.
Northland Ind., Rajauri Rd., New Delhi 110001.
Shalimar Fruit Products, M 13, Ind. Area, Anand Parbat, New Delhi 110005.
Shamrock Food Products, Maniwala Bagh, Azadpur, New Delhi 110033.

Goa

Chowgule & Co. Hind Pvt. Ltd., Margao, Goa 403601.
Goa Exotic Canners & Freezers, Jose Falcao Rd., Panaji 403001.
Goa Farm Products, Panaji 403001.
Goa Food Products Ltd., Margao, Goa 403601.

Gujarat

Bipin Food Products, Ind. Estate, Vadodara 390003.
Pure Products & Madhu Canning Ltd., Ind. Estate, Vadodara 390003.
Roerick & Co. Ltd., Modi Santh, Nadiad, 387001.

Himachal Pradesh

Krishna Fruit Agency, Subzimandi, Simla 171001.
Mohan Meakin Breweries Ltd., Solan 173212.
Solan Food Products Pvt. Ltd., Solan 173212.
Vegetable Growers Co-op.-Cum-Mktg. Society, Solan 173212.

Jammu and Kashmir

H. A. Rahim & Co., Rajbagh, Srinagar 190001.
J. K. Barley Works, Parade, Jammu 180001.
Kashmir Fruit Assn., Fruit Market, Srinagar 190001.
Kashmir Fruit Chemical Ind., Bohri, Srinagar 190001.
Kashmir Fruits, Ind. Estate, Barzulla, Srinagar 190001.
Kay Food Preservers & Canners, Moti Bazar, Srinagar 190001.
Nishat Fruit Co., 7, Fruit Market, Srinagar 190001.
Sama Pvt. Ltd., Sopore.
Sawhneys Fruit Farms, Batapora, Srinagar 190003.
Tulip Products, Ind. Estate, Barzulla, Srinagar 190001.

Kerala

Ashiana Greens & Foods Ltd., Cannanore 670001.
Canning Ind. Cochin Ltd., P.O. Box 48, Trichur 680001.
Darlco Canning Ltd., Moospet Rd., Trichur 680005.
Dessicated Coconut Ind., Thuruthy, Chenganacherry 686101.
Esbel Products, Thirumalam, Trivandrum 695001.
International Canning Co., Cochin 682001.
Kaycee Plantations & Canning Co., High Rd., Trichur 680001.
Midland Fruit & Vegetable Products (India) Ltd., Punalur 691305.
National Dairy & Canning Co., Ltd., Trivandrum 695001.
Parur Canning Ind. Pvt. Ltd., Parur.

Maharashtra

A. Kalvert & Co., 90, Mazgaon Rd., Bombay 400010.
Anand Canning Ind. Pvt. Ltd., 522, A. H. Adenwala Rd., Bombay 400019.
Asian Dehydrates Ltd., 40, Police Court Lane, Bombay 400001.
Blossom Food Ind., Khopoli.
Bombay Foods Ltd., Khatau Chawl, Haines Rd., Bombay 400011.
Britannia Prestige Foods, Reay Rd., Bombay 400010.
Canned Food Products, Fansibag, S. Nagar, Ratnagiri 415612.
Chitale Agricultural Products Ltd., 635/63-64, Vijayanagar Colony, Pune 411002.
Chitale Syrups & Allied Products Ltd., Western India House, Sir P. Mehta Rd., Bombay 400001.
Choc's Canning Pvt. Ltd., 28, Apollo St., Bombay 400001.
Co-op. Orange Growers Society, Shendurjana Ghat.
Corn Products Co. (I) Pvt. Ltd., Shrinivas House, Waudby Rd., Bombay 400001.
D. & P. Products Pvt. Ltd., Agra Rd., Bhandup, Bombay 400078.
Dee Bright & Co. (I) Pvt. Ltd., St. Mary's Rd., Bombay 400010.
Dr. Writers Chocolate & Canning Co., B. Shankar Rd., Bombay 400028.
Fruit & Farm Products, Behramji Mansion, Sir P. Mehta Rd., Bombay 400001.
G. B. Food Ind., Near Quetta Colony, Nagpur 441002.
General Foods Corpn., Saki Vihar Rd., Bombay 400072.
Gits Food Products (I), 201, Hadapsar Ind., Estate, Pune 411013.
Harnik Food Ind., 9, Connaught Rd., Pune 411002,
Hasba Fruit Products, 24, Nagesh Peth, Pune 411002.
Hawai Ind., 85, Love Lane, Bombay 400010.
Himalaya Food Products, Gupta Nagar, Bombay 400060.
Hindustan Food Products, 340, Opp. Sewree Rly. Stn., Sewree, Bombay 400015.
Hindustan Lever Ltd., Backbay Recl., Bombay 400020.
James Smith & Co., Shrinivas House, Waudby Rd., Bombay 400001.
Janata Food Products, Bachelor Rd., Wardha 442001.
Jivan Foods Pvt. Ltd., Worli Sea Face, Bombay 400018.
Mahendra Foods Pvt. Ltd., Sion Trombay Rd., Bombay 400088.
Mig Ind., S. Senvi Wadi Lane, Khadilkar Rd., Bombay 400004.
M. M. Poonjiajee & Co., 42, First Marine St., Bombay 400002.
Nagpur Orange Growers Co-op. Assn. Ltd., Nagpur 440001.
Pamona Canning Co., Kasturchand Mills Estate, Bombay 400028.
Pashupathi Trading Co. Ltd., Bagadganj, Nagpur 440001.
Poona Dist. Co-op. Purchase & Sales Union Ltd., Bhawanipeth, Pune 411002.
Poona Food Canning Pvt. Ltd., 685/2-C, Poona-Satara Rd., Pune 411019.
Powells Farm Products, Chimanbagh, Panchgani.
Pure Food Products, 43, Nav Nandanvan Ind. Estate, Agra Rd., Bombay 400080.
Pure Products & Madhu Canning Ltd., Sion-Trombay Rd., Bombay 400071.
Ratnakar Canning Ind., Shivajinagar, Pune 411005.
Rio Food Products Co. 485, Cadell Rd., Bombay 400028.
S. D. Fruit Products, 62, Katrak Rd., Bombay 400031.
Sunshine Seafoods Co. Pvt. Ltd., Sangli Bank Bldg., Homji St., Bombay 400001.
Tata Ind. Pvt. Ltd., 24, Bruce St., Bombay 400001.
Tim Tom Food Products, Shantinagar, Vakola, Bombay 400055.
Top Rank Co., Swadeshi Mill Estate, Bombay 400004.
Triumph Products, B. Shankar Rd., Bombay 400028.
U. S. Vitamin & Pharmaceutical Corpn. India Ltd., 43, Forbes St., Bombay 400001.
Waikfield Products Co. (I), 116, Koregaon Park, Pune 411001.
Yeshwant Co-op. Canning Ltd., Pimpalgaon.

Mysore

Bharat Ind. & Canning Co., Ltd., Kaup, S. Kanara Dist.
Bharat Ind. Canning Co., Ltd., Market Rd., Mangalore 575001.
Bolst's Indian Condiments, 9, Ashley Park Rd., Bangalore 560001.
Bombay Foods Pvt. Ltd., Harohalli Rd., Byrapura, Bangalore 560001.

Canara Sea Food Packers, Govt. Ice Factory Bldg., Hoige Bazar, Mangalore 575001.
Coorg Honey & Wax Products Co-op. Society Ltd., Virajpet, Coorg.
Coorg Orange Growers Co-op. Society Ltd., Palibetta, Coorg.
Coronet Canning Co., Ltd., Malpe, S. Kanara Dist.
East Products Pvt. Ltd., Millers Rd., Bangalore 560001.
Food Concentrates (I) B-49, Ind. Estate, Rajajinagar, Bangalore 560010.
Hindustan Canning Co., Marnamikatta Rd., Mangalore 575001.
Honnavar Bee Keeping Society Ltd., Honnovar, N. Kanara Dist.
Janfa's Fruit Products, Mathikoppa, P.O. Ulloor, Shimoga Dist.
Kissan Products Ltd., Old Madras Rd., Bangalore 560016.
Kwality Food Products, Mysore Rd., Bangalore 560026.
Madonna Canning Co., Mukka, Surathkal, Mangalore 575001.
Orchards Fruit Products, 5, Bore Bank Rd., Bangalore 560006.
Vita Food Products, Mysore Rd., Bangalore 560020.

Orissa

Barabati Fruit Products Ltd., Rajabagicha, Cuttack 753001.
Orissa Fruit Products Ltd., Ind. Estate, Cuttack 753001.
Utkal Fruit Products Ltd., Angul, Dhenkanal Dist.

Punjab

Atma Singh Bholasingh, New Misri Bazar, Amritsar 143001.
Food Specialities Ltd., Ludhiana-Ferozpur Rd., Moga 142001.
Glacier Products India, Pathankot 145001.
J. B. Fruit Products, Basti Guzan, Jullundur 144001.
Pal's Fruit Products, 22, Model Town, Amritsar 143001.

Rajasthan

Jai Canning Co., Sood Sadan, Gumanpura, Kota 324001.
Rajasthan Fruit Preservers Pvt. Ltd., N. Sriganganagar 335001.

Tamil Nadu

Banana & Fruit Dev. Corpn. Ltd., 3, Wheatcrofts Rd., Madras 600034.
Coastal Sea Foods, 69, Barthur St., Kilakarai.
Coimbatore Malt Food Factory, 29, Sundarakkamuthur Rd., Coimbatore 641001.
Dalmia Pvt. Ltd., Dalmia House, Madras 600033.
Fruitex Fruit Juice Products, West Cooum River Rd., Madras 600002.
Fruitnik Delican Pvt. Ltd., Annanagar, Madras 600040.
Kerala Food Packers, 6, S. Naidu St., Cuddalore 607003.
Madras Food Products Co. Ltd., 48, Anderson St., Madras 600001.
Orient Pharma Pvt. Ltd., Old T. Rd., Madras 600043.
Shri Ganeshram & Co., 46, T. Chetty St., Madras 600001.
Venkatachalam Condiments, 1-2, Pophams, Broadway, Madras 600001.

Uttar Pradesh

Ajanta Raj Food Ind., 9, Ind. Estate, Agra 282006.
Allahabad Canning Co., Bamrauli, Allahabad 211001.
Allahabad Milling Co., Pvt. Ltd., Luckerganj, Allahabad 211001.
Anu Canning & Bottling Ind. 17/7, The Mall, Kanpur 208001.
B. Dugson Fruit Products, 7, Chakrata Rd., Dehra Dun 248001.
Bharat Fruit Co., Tikonia, Etawah 206001.
Bimal Fruit Products, Chowk, Lucknow 226003.
B. K. Food Ind., B-1, Ind. Estate, Talkatora Rd., Lucknow 226004.
Central Dairy Farm, Aligarh 202001.
G. G. Fruit Preservation Factory, Tanakpur Rd., Haldwani.
G. G. Ind., Belanganj, Agra 282001.
Globe Chemical & Fruit Products, Chabai Qila, Bareilly 243001.
Govt. Fruit Processing Factory, Ram Garh, Nainital Dist.
Greenland Ind., G.T. Rd., Chandore, Bulandshahr 203001.
Healthways Food Products Co., 86, Factory Area, Kanpur 208001.
Kumaon Farm Products, Poplars Mall, Nainital 263001.
Maharaja Food Ind., Ghazipur 233001.
Midland Fruit & Vegetable Products (I.) Ltd., Mathura 281001.
Mohan Meakin Breweries Ltd., Mohan Nagar, Gaziabad 201001.
Paris Food & Chemical Ind., 17, Dhamanwala, Dehra Dun 248001.
Spencer & Co. Ltd., G.T. Rd., Kanpur 208001.
S. R. Cannery, 148, Attarsuiya Rd., Allahabad 211001.
Toki Food Products, B. L. Estate, Kanpur 208001.
Uberoi Food Ind. 2, Scott Rd., Sadar, Lucknow 226002.
U.P. Chemicals & Fruit Products Pvt. Ltd., Bara Bazar, Bareilly 243001.
U.P. Fruit Products Pvt. Ltd., Bara Bazar, Bareilly 243001.
Veldon Chemical & Food Products, 39/B, Chukhuwala, Dehra Dun 248001.

West Bengal

Alpha Food & Chemical Pvt. Ltd., 142, B. Shah Rd., Calcutta 700053.
Amiadia Food Products Ltd., 7/2, Amratola Lane, Calcutta 700001.
Atlantis (East) Ltd., 41, Chowringhee Rd., Calcutta 700016.
Bengal Chemical & Pharm. Works Ltd., 164, Manikotta Main Rd., Calcutta 700011.
Boral & Son Pvt. Ltd., 11-B, R. Biswas Lane, Calcutta 700019.
Crushers Fruit Juice Co., 32-A Beniapukur Lane, Calcutta 700014.
Dabur (Dr. S. K. Burman) Ltd., 142, Rashbehari Ave., Calcutta 700029.
Daw Sen & Co. Pvt. Ltd., 26, S. Sarkar Rd., Calcutta 700014.

Farm & Fruit Products Pvt. Ltd., 71/A, Chakraberia Rd., Calcutta 700020.
Frank Ross & Co. Ltd., 35, Ripon St., Calcutta 700016.
Gaylord Processed Food Products, 39, Nimtola Ghat St., Calcutta 700006.
Imperial Fruit Preserving Co. 35/A, Muraripukur Rd., Calcutta 700004.
James Lord & Sons Ltd., 19, Strand Rd., Calcutta 700001.
Jedys Fruit Preserving Co., 114, Collin St., Calcutta 700016.
Kalyanpur Canning Corpn., C/3, Gillander House, N. Subash Rd., Calcutta 700001.
Lilly Barley Mills Pvt. Ltd., 19, Muraripukur Rd., Calcutta 700004.
Lokenath Chemical Works, 31/1, The Mall, Dum Dum, Calcutta 700028.
Mays Fruit Ind., 36, Mott Lane, Calcutta 700013.
Mida & Co. Pvt. Ltd., 33, Canning St., Calcutta 700001.
Mitter Sircar & Co., 68, Serpentine Lane, Calcutta 700014.
Pure Food Producing Co., 413, D. H. Rd., Behala, Calcutta 700034.
Reckitt & Colman of India Ltd., B. Roy Rd., Behala, Calcutta 700008.
State Fisheries Dev. Corpn. Pvt. Ltd., 43, Shakespeare Sarani, Calcutta 700016.
Tims Products Ltd., Nimta Rd., Belgharia, Calcutta 700056.
United Chemical Ind., M. N. Kumar Rd., Calcutta 700036.
United Fruit Preserving Co., 31, Mott Lane, Calcutta 700013.

FOOD COLOURS

Gujarat

Atul Products Ltd., Atul, Via Valsad
K.C.A. Pvt. Ltd., Chandralaya, Chandibazar, Jamnagar 361001
Suhrid Geigy Pvt. Ltd., Wadi Wadi, Vadodara 390001.

Maharashtra

Esoofaly Mohamedaly & Co., 102/4, Sarang St., P.B. 3177 Bombay 400003.
Hickson & Dadaji Pvt. Ltd., Sri Pant Bhuwan, Sandhurst Bridge, Bombay 400007.
Idachem Ind. Pvt. Ltd., National Insurance Bldg., Dr. D. Naoroji Rd., Bombay 400001.
James Smith & Co., Shriniwas House, Waudby Rd., Bombay 400001.
Mody & Co., 265, Princess St., Bombay 400002.
Weikfield Products Co. India, 116, Koregaon Park, Pune 411001.

Uttar Pradesh

Tirath Chemical Ind., Ganeshganj, Lucknow 226001.

CANNED MEAT AND MEAT PRODUCTS

Delhi

Essex Farm Pvt. Ltd., Kalu Sarai, P.O. Yusuf Sarai, New Delhi 110016.

Maharashtra

A. Kalvert & Co., 90, Mount Rd., Bombay 400010.
Bacon Factory, Krishnagiri Upavan, Bombay 400092.
Dr. Writers Chocolate and Canning Co., B. Shankar Rd., Bombay 400028.
James Smith & Co., Shriniwas House, Waudby Rd., Bombay 400001.
Poultry Dressing Plant, Pune 411016.

Uttar Pradesh

Central Dairy Farm, Aligarh 202001.

FOODS, PROTEIN

Gujarat

Kaira Dist. Co-op. Milk Producers' Union Ltd., Anand 388001.

Maharashtra

Britannia Biscuit Co. Ltd., Nirmal, Nariman Point, Bombay 400020.
Cadbury Fry (I) Ltd., Cadbury House, B. Desai Rd., Bombay 400026.
Corn Products Co. (I) Pvt. Ltd., Mathruchaya, 86, M. B. Raut Rd., Bombay 400028.
Glaxo Laboratories (I) Ltd., Dr. A. Besant Rd., Worli, Bombay 400018.
Hindustan Lever Ltd., 165/166, Backbay Recl., Bombay 400020.
Parle Products Pvt. Ltd., North Level Crossing, Vile-Parle, Bombay 400057.
Pfizer Ltd., Express Towers, Nariman Point, Bombay 400020.
Roche Products Ltd., 28, Tardeo Rd., Bombay 400034.
Tata Oil Mills Co. Ltd., Bombay House, Bruce St., Bombay 400001.
Unichem Laboratories Ltd., 22, B. Desai Rd., Bombay 400026.
Wallace Flour Mills Co. Ltd., 9, Wallace St., Fort, Bombay 400001.
Warner Hindustan Ltd., Belvandi House, 254-B, Dr. A. Besant Rd., Bombay 400025.

New Delhi

Coca-Cola Export Corpn., 14-A, Nizam-ud-din West, New Delhi 110013.
D.C.M. Chemical Works, Najafgarh Rd., New Delhi 110015.
Food Corpn. of India, 1, B. Shah Zafar Marg, New Delhi 110001.
Hindustan Milkfood Manufrs. Ltd., Himalaya House, 23, K. Gandhi Marg, New Delhi.
Modern Bakeries (I) Ltd., Vasant Vihar, C-8, Paschim Marg, New Delhi 110022.
Nestle's Products (I) Ltd., Link House, 3, B. Shah Zaffar Marg, New Delhi 110001.

Punjab

Jagatjit Ind. Ltd., P.O. Jagatjit Nagar, Hamira (N. Rly.), Kapurthala Dist.

Tamil Nadu

Spencer & Co. Ltd., 153, Mount Rd., Madras 600002.

West Bengal

Brooke Bond (I) Ltd., 9 Shakespeare Sarani, Calcutta 700016.

Lipton (I) Ltd., 9, Weston St., Calcutta 700013.

Reckitt & Colman of India Ltd., 41 Chowringhee Rd., Calcutta 700016.

United Flour Mills Co. Ltd., 4, Bankshall St., Calcutta 700001.

FURNACES

Gujarat

Hind Electric Co., Ltd., Gorwa, Vadodara 390001.

Indequip Engg. Ltd., Naroda Rd., Ahmedabad 380002.

Haryana

Hindustan Instrument & Appliances, 125, Staffs Rd., Ambala 133001.

Madhya Pradesh

Industrial & Agricultural Heating Appliances, 26, Tilakpath, Indore 452001.

Maharashtra

Bombay Furnace Co., 1-3, Nandu Ind. Estate, Mahakali Caves Rd., Chakala, Andheri (East), Bombay 400069.

Bombay Furnaces Pvt. Ltd., 5, Stadium House, V. Nariman Rd., Bombay 400020.

Furnace & Foundry Equipment Co., Chandivli Farm, Bombay 400072.

Gansons Pvt. Ltd., 207, Kakad Chambers, Dr. A. Besant Rd., Bombay 400018.

Heatreats Pvt. Ltd., 4-B, Menon Ind. Estate, S. Vivekanand Rd., Bombay 400062.

Hindustan Brown Boveri Ltd., Brown Boveri House, Dr. A. Besant Rd., Bombay 400018.

Khandelwal Udyog Ltd., 166, D. Naoroji Rd., Bombay 400001.

Killick Ind. Ltd., 31, Murzban Rd., Bombay 400001.

La Mina Pvt. Ltd., 15, Aghadi Ind. Estate, Marol, Bombay 400059.

New Standard Engg. Co. Ltd., N. S. E. Estate, Goregaon, Bombay 400063.

Sohal Engg. Works, E. Moses Rd., Bombay 400013.

Steel Plant Pvt. Ltd., 250-C, Dr. A. Besant Rd., Bombay 400018.

Therelek Furnaces Pvt. Ltd., A/131, Wagle Ind. Estate, Thana 400601.

Thermotreat, Unit No. 1, Estate No. 3, Anupam Ind. Estate, Opp. Ralliwolf, L. B. Shastri Marg, Mulund (West), Bombay 400080.

Toshniwal Bros. Pvt. Ltd., 198, J. Tata Rd., Bombay 400001.

Vulkan Engineers Pvt. Ltd., Mahalakshmi Chambers, B. Desai Rd., Bombay 400026.

Westerwork Engineers Pvt. Ltd., 5-D, Vulcan Insurance Bldg., V. Nariman Rd., Churchgate, Bombay 400020.

Mysore

Southern Ind. Furnaces Pvt. Ltd., 613-4, Chamaraja Rd., Mysore 570004.

Tamil Nadu

Binny's Engg. Works Ltd., Meenambakam, Madras 600061.

Electro-Mech. Instruments, 49, T. H. Rd., Madras 600019.

Thadani Engg. Works Pvt. Ltd., B-6, Ind. Estate, Madras 600058.

Uttar Pradesh

Scientific Instrumetns Co. Ltd., 6, R. B. Sapru Rd., Allahabad 211001.

West Bengal

Associated Electrical Ind. (India) Pvt. Ltd., 6, Mission Row, Calcutta 700001.

Bengal Enamel Works Ltd., 60-2, Dharamtolla St., Calcutta 700013.

Bengal-Linn (Industrial Furnace) Ltd., 27 B, Camac St., Calcutta 700016.

Electric Furnace & Transformer Manufg. Pvt. Ltd., J-14, Howrah Ind. Estate, Howrah 711101.

H. J. Alcock & Co. Pvt. Ltd., 7, Hastings St., Calcutta 700001.

Hindustan Gas & Ind. Ltd., 22, New Tangra Rd., Calcutta 700046.

Jessop & Co. Ltd., 63, N. Subash Rd., Calcutta 700001.

Kusum Engg. Co. Ltd., 25, Swallow Lane Calcutta 700001.

Middleton Engg. Co., 12E, Park St., Queens Mansions, Calcutta 700016.

Wesman Engineering Co. Pvt. Ltd., 1-2, Allenby Rd., Calcutta 700020.

GARMENTS, READY-MADE

Andhra Pradesh

Kaamles Dresses, Opp. Syndicate Bank, Adoni 518301.

Sakaray Eranna & Sons, Roshan Market, Adoni 518301.

S. G. Dresses, R. B. Bldg., Feelkhana, Hyderabad 500001.

Srinivasa Dresses, New Municipality Bldg., XX/8-8, Park Rd., Adoni 518301.

Sri Rama Dress & Co., 22-1-536/1, Noorkhan Bazar Markets, Hyderabad 500024.

Delhi

Anand Trading Corpn., 3152, Ram Bazar, Mori Gate, Delhi 110006.

Apparels (I.) Pvt. Ltd., P. B. 1668, Delhi 110006.

Award Apparel Pvt. Ltd., 10, Tilak Nagar, Ind. Area, New Delhi 110018.

Brightway Neckwear Co., Prahlad Market, Karolbagh, New Delhi 110005.

Continental Exports, 18/4 Asaf Ali Rd., New Delhi 110005.

Continental Traders, 8941, Multani Dhanda, New Delhi 110001.

Elegant Garments, 53/5, D. Gupta Rd., Near Prahlad Market, New Delhi 110005.

Emkay Ind. Corpn., 38, Najafgarh Rd., New Delhi 110015.

Golden Hosiery Manufg. Co. Pvt. Ltd., 5038, Rai Mandi, Sadar Bazar, Delhi 110006.

Handicrafts & Handlooms Export Corpn. of India Ltd., Lok Kalyan Bhavan, 11-A, Rouse Avenue Lane, New Delhi 110001.

Inter Continent (Travancore) Pvt. Ltd., Pratap Bldg., Connaught Circus, New Delhi 110001.

Jainco Dresses (Regd.), St. No. 8, Kailash Nagar, Delhi 110031.

Jai Shree Wear Corpn., Naughara, Kinari Bazar, Delhi 110006.

Playboy Garments Co., 2/90, Connaught Circle, New Delhi 110001.

Shiv Silk Mills, 71/4, Najafgarh Rd., New Delhi 110015.
Wings Wear Pvt. Ltd., 1/4, West Patel Nagar, New Delhi 110008.
Zonare Ties Manufg. Co., C-120, Kirti Nagar, New Delhi 110015.

Gujarat

Evershine, M. R. Colony, Saraspur, Ahmedabad 380018.
Lotus Ind., Udyog Nagar, Rd. No. 3, Udhna.
Mansukhram Exclusive, Gandhi Rd., Ahmedabad 380001.
Rajindra Dyeing & Printing Mills Ltd., Garment Division, Project Office, Calico Mills, Ahmedabad 380022.

Madhya Pradesh

Mangalchand Hukmi Chand Ind. (M.P.) Ltd., 2, Free Ganj, Shitlamata Bazar, Indore City 452001.

Maharashtra

Airmaster Clothiers, 285, Frere Rd., Bombay 400001.
Ajantha Dresses, 1201, Sukrawar Peth, Pune 411002.
Allwin Garments, 436, A/1, Narayanpeth, Near Lokhande Talim, Pune 411030.
Alpara Dresses, 507, Guruwar Peth, Pune 411002.
Amalgamated Apparels, 28/29, Ideal Estate, Mathuradas Mills Compound, Delisle Rd., Lower Parel, Bombay 400013.
Amardeep Dresses, Ashok Nivas, Ranade Rd., Dadar, Bombay 400028.
Amar Ind., Lalsingh Bldg., Lohar Chawl, Bombay 400002.
Amersey Exports Pvt. Ltd., C/o Milton's Pvt. Ltd., Mathuradas Mills Compound, N. M. Joshi Marg, Lower Parel, Bombay 400013.
Anjana Apparel, 301/309, Tijoriwala Bldg., Block No. 6, Grant Rd. Corner, Bombay 400007.
Anmol Dresses, Fatima Manzil Bldg., Opp. Kabutar Khana, Near Dadar Dept. Stores, Bombay 400028.
Apparel Corpn., H. N. Soni Bldg., Sitabuldi, Nagpur.
Asian Clothing Co., Vasant Nivas, Tulsi Pipe Rd., Dadar, Bombay 400028.
Asiatic Dresses, 10, R. Dadaji St., Near Handloom House, Bombay 400001.
Asiatic Dresses, 344, Budhwar, Pune 411002.
Associated Apparel Pvt. Ltd., Rajmahal, 84, V. Nariman Rd., Bombay 400001.
Babson & Co., Hirji Govindji Estate, T. Jivraj Rd., Sewree, Bombay 400015.
Baby Doll Dress Manufg. Co., 927, Sidheshwar Cloth Market, Sholapur 413002.
Beauca Foundations Inc., Jaman Bldg., 211, Nagdevi St., Bombay 400003.
Bonny Dresses, Elam Mahal, R.B.C.K. Bole Rd., Opp. D'Silva High School, Dadar, Bombay 400028.
Brooklyn Corpn., Daver House, 199, D. Naoroji Rd., Bombay 400001.
Burlington's Exports, Taj Mahal Hotel, Bombay 400001.
Chetna Children Choice, 193, New Guruwar Peth, Relwala Chowk, Inside Bank of Maharashtra, Pune 411002.
Choudhary Enterprises, 203, A to Z, Ind. Estate, Fergusson Rd., Lower Parel, Bombay 400013.
Climax Apparel, 235, Bazargate St., Bombay 400001.
Continental Apparel Manufg. Co., Mohatta Bhavan, Haines Rd., Worli, Bombay 400018.
Cravatex Ltd., 'Niranjan', 89, N. Subash Rd., Bombay 400002.
Diamond Products, 239-A, Furgusson Rd., Bombay 400013.
Embassy Apparel, 306, Hind Rajasthan Ind. Estate, Naigaum Cross Rd., Wadala, Bombay 400031.
Eves Apparel, 4/5, Akash Deep, Opp. Rly. Crossings, Zakeria Bunder Rd., Sewree, Bombay 400015.
Excel Wear, Allied Silk Mills Compound, 111-113, Dr. Nariman Rd., Near Bengal Chemicals, Bombay 400025.
Fashion Productions, Arvind House, Quay St., Near Sewree Police Station, Reay Rd., Bombay 400010.
Fit-Well Garments, 307, Hind Rajasthan Ind. Estate, Naigaum Cross Rd., Wadala, Bombay 400031.
Five Stars Garments, 825, Budhwar Peth, Sonya Maruti Chowk, Pune 411002.
Fortune Apparels Pvt. Ltd., 107, Adhyaru Ind. Estate, Sun-Mill Comp., Lower Parel, Bombay 400013.
Gajanan Dresses, 249, Shukrawar Peth, Pune 411002.
Garment Enterprises Ltd., Swan Mills Comp., T. Jivraj Rd., Sewree, Bombay 400015.
Garments (Export) Manufg. Co. 22C, Ghatkopar Ind. Estate, L. B. Shastri Marg, Ghatkopar, Bombay 400086.
Gaylord Dresses, 23, Rasta Peth, Pune 411011.
Gem Dress Manufg. Co., 312, Ganj Peth, Pune 411002.
Giriraj Textile Ind. Pvt. Ltd., 107, Churchgate Chamber, New Marine Lines Rd., Bombay 400020.
Goodwill Tie Works, 247, Nagdevi St., Bombay 400003.
Gurudatta Dresses, 1693, Sadashiv Peth, Near S.C. College, Ludha Nivas, Pune 411002.
Hakoba Pvt. Ltd., 95, V. Patel Rd., C.P. Tank, Bombay 400004.
Handloom (India) & Garments Ind. Pvt. Ltd., 59, Forbes St., Bombay 400001.
Han's Textile, 332, Jai Gopal Ind. Estate, Bhawani Shanker Cross Rd., Dadar, Bombay 400028.
Highland Corpn. 24-A, Mughal Lane, Matunga W. R., Bombay 400016.
Hindustan Apparel Ind., Hindustan House, Rd. No. 22, Wagle Ind. Estate, Thana 400604.
Hindustan Clothing Co., Shroff Market, Block No. E-1/E-2, Gokhale Rd., South, Bombay 400028.
Hindustan Dresses, 22, M. Phule Peth, Pune 411002.
Hindustan Garments Ltd., 305-A, Jolly Bhavan, 10, New Marine Lines, Bombay 400020.
Indian Apparels, 412, S. Vivekanand Rd., Bandra Bombay 400050.
India Overseas Trading Co., 58, Commercial Chambers, Masjid Bunder Rd., Bombay 400003.
Indian Silk Manufg. Co., 265, Kalbadevi Rd., Bombay 400002.
Indo-Bombay Apparel Traders, Balaram Bhuvan, Grant Rd., Bombay 400007.
Ind. Clothing Co., 79, Medows St., Bombay 400001.
Interlink Traders Pvt. Ltd., 121, Masjid Bunder Rd., Bombay 400003.
International Clothing Industries, Shirt House, 87, Ind. Estate, Kandivli (West), Bombay 400067.
Jai Bharat Dress Manufg. Co., 94, Chakla St., Bombay 400001.
Janta Clothing Co., Fairal Bldg., Jail Rd., East, Near Habid Hospital, Dongri, Bombay 400009.
Jayshree Trading Corpn., Mahalaxmi Ind. Estate, Drainage Channel Rd., Morarji Gokuldas Mills Compound No. 2, Lower Parel, Bombay 400013.
Jayshri Garments, 47, East Mangalwar, Sholapur 413002.

J. B. Trading Corpn., 32, Silk House, Girgaum Rd., Bombay 400002.

Jubilee Clothing Co., 20 Off M. Chotani Rd., Mahim, Bombay 400016.

Jubilee Tie Works, 74/80, S. Devjee St., Bombay 400003.

Kabra Garments, 64, Guruwar Peth, Sholapur 413002.

Kalpana Dresses, 1, Jaigopal Ind. Estate, Bhavani Shankar Cross Rd., Dadar, Bombay 400014.

Kalyani Cloth Merchants, 353, Shukrawar Peth, Pune 411002.

Kamal Brassiers Manufg. Co., Motibai Bhuvan, 3-A, Proctor Cross Rd., Grant Rd., Bombay 400007.

Kannaya Dresses, 120, New Guruwar Peth, Pune 411002.

Kaymore Garments, Bank of Maharashtra Bldg., Laxmi Rd., Pune 411002.

Ketan Children Wear, 341, Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.

Kohinoor Dress Manufg. Co. Pvt., Ltd., 204, K-28, New Shahupuri, Kolhapur.

Kumud Ind. Milton's House, Prabhadevi, Bombay 400025.

Laffans (I.) Exports Pvt. Ltd., 21/23, V. Nariman Rd., Bombay 400001.

Lalan Readymade Manufrs., Gyan Mandir Rd., 6th Ash Lane, Dadar (W.R.), Bombay 400028.

Liflin Wear, 222, Jaigopal Ind. Estate, B. Shanker Cross Rd., Dadar, Bombay 400028.

Liege Garments, 224, Wadala Udyog Bhavan, Ambedkar Rd., Wadala, Bombay 400031.

Literate Wear, 99, Bhuta Sanghvi Estate, New Nagardas Rd., Andheri East, Bombay 400069.

Mafatlal Apparel Manufg. Co., Mehta Mahal, 15, Mathew Rd., Bombay 400004.

Manoj Dress Manufg. Co., 478, Budhwar Peth, Pune 411002.

Mansukh Dress Manufg. Co., 350, Budhwar Peth, Pune 411002.

Masterpiece, 10, R. Dadaji St., Bombay 400001.

Men's Apparel, Kathoke Lodge, Dadar Cross Rd., Bombay 400014.

Merry Maid Manufg. Co., Ishwar Mansion, Opp. Cama Baug, 52, New Charni Rd., Bombay 400004.

Metropolitan Trading Co., Apte Properties, 1076, Off Haines Rd., Worli, Bombay 400018.

Milton's Pvt. Ltd., Mathuradas Mills Comp., N. M. Joshi Marg, Lower Parel, Bombay 400013.

Mita Dresses, 301/309, Tijoriwala Bldg., Block No. 2, Grant Rd. corner, Bombay 400007.

Modern Drapers, York House, Colaba Causeway, Bombay 400001.

Naj Dresses, 260, Ganj Peth, Near Police Station, Pune 411002.

Nalanda Dresses, 205, Somwar Peth, Near Daruwala Bridge, Pune 411011.

Naygara Dresses, 366/68, Shukrawar Peth, Adinath Chowk, Pune 411002.

Newlook Brassier Co., 204-J, Shanker Shet Rd., Bombay 400004.

New Universal Apparel, Parker Bldg., No. 6, 12 C. Patel St., Bombay 400001.

Noble Garments, 482/83, Budhwar Peth, Pune 411002.

Padma Dresses, 37, Shaniwar, Sholapur 413002.

Pan Clothing Factory, C-9, Shri Ram Ind. Estate, 131, Katrak Rd., Wadala, Bombay 400031.

Paradise Clothing Co., 153, S. V. Patel Rd., Bombay 400004.

Paragon Dress Manufg. Co., 1029/2, Sadashiv Peth, Laxmi Rd., Opp. Vijay Talkies, Pune 411030.

Parekh Garments, 137, Jaigopal Ind. Estate, Bhawan, Shankar Cross Rd., Dadar, Bombay 400028.

Paville Fashions Pvt. Ltd., Greaves Cotton Bldg., 1, Forbes St., Bombay 400001.

Pearl Products, Jaigopal Ind. Estate, Unit No. 133, B. Shankar Cross Rd., Dadar, Bombay 400028.

Poona Hosiery Mills, 907, New Budhwar Peth, Opp. Gujarat Lodge, Pune 411002.

Popular Dress Manufg. Co., Pethe Bldg., Ranade Rd., Bombay 400028.

Prakash Cotton Mills Pvt. Ltd., 139, N. Master Rd., Bombay 400001.

Prasad Garments, 1138, Sadashiv, Opp. Shivaji Mandir, Pune 411002.

Prince Garments, 894, Raviwar Peth, Near Daruwala Bridge, Pune 411002.

Rajkamal Dresses, 1105, Raviwar Peth, Pune 411002.

Rallis India Ltd., Ralli House, 21, Raveline St., Bombay 400001.

Raymonds Woollen Mills Pvt. Ltd., Pokhran Rd., P.O. Jekegram, Thana 400601.

Readywear Dress Manufg. Co., 172, Budhwar Peth, Belbaug Chowk, Pune 411002.

Regent Wear, 93, Bazargate St., Bombay 400001.

Resham Creation, Auto Commerce House, Kennedy Bridge, Nana Chowk, Bombay 400007.

Rightway Hosiery Works, Mungekar Ind. Estate, 13-14, Vishweshwar Nagar, Goregaon, Bombay 400063.

Riviera Apparels Pvt. Ltd., General Assurance Bldg., 232, Dr. D. Naoroji Rd., Bombay 400001.

R. R. Apparel Manufg. Co., 314, Hind Rajasthan Ind. Estate, Naigaum Cross Road, Wadala, Bombay 400031.

Ruby Garments, 325, Budhwar Peth, Pune 411002.

Sainara Apparel, Dady Seth House, 44, C. Patel St., Bombay 400001.

Sainath Trading Corpn., 521/14-15, Kalbadevi Rd., Bombay 400002.

Samir Brothers, Mangaldas Market, Shop No. 8, 7th Lane, Bombay 400002.

Sangam Dresses, 83/85/87, Keshav Bhavan, Khetwadi Back Rd., 7th Lane, Bombay 400004.

Sathee Wear Corpn., 8, National Library Rd., Bandra West, Bombay 400050.

Selection Wear, 105, Jaigopal Ind. Estate, B. Shankar Cross Rd., Dadar, Bombay 400028.

Shree Durga Apparel, 330, Wadala Udyog Bhavan, Wadala, Bombay 400031.

Shreenivas Readymade Clothes Producers Co-op. Society Ltd., 150, T. Pachha Peth, Sholapur 413003.

Shringar Dress Manufg. Co., 361, Budhwar Peth, Pune 411001.

Sona Apparel, 334, Jai Gopal Ind. Estate, B. Shankar Cross Rd., Dadar, Bombay 400028.

Sona Dress Manufg. Co., 480, New Kasba Peth, Pune 411001.

Star Ind., Court House, 298, Carnac Rd., Bombay 400002.

Sterling Enterprises, Tardeo Air Conditioned Market, 3rd Fl., Room No. 14, Tardeo, Bombay 400034.

Styled Apparels, Elar Bldg., 524, Tulsi Pipe Rd., Dadar, Bombay 400028.

Sugam Dresses, Bldg. No. 6, 2nd Fanaswadi, Bombay 400002.

Sunder Garments, 233, Kakad Ind. Estate, Off Lady Jamshedji Rd., Bombay 400016.

Supreme Apparel Manufrs., 72, Champa Gally, Bombay 400002.

Swastik Manufg. Co. 453, Duncan Rd., Bombay 400004.

Tee-Nees Garments Manufg. Co., 208, Shiv Darshan Shopping Centre, M. Gandhi Rd., Santa Cruz East, Bombay 400054.

Tilok Chandani Dresses, 447, Budhwar Peth, Pune 411002.

Todi Ind. Pvt. Ltd., Todi Estate, Sun Mill Rd., Lower Parel, Bombay 400013.

Tots & Toddlers Co., Oomrigar Bldg., Opp. Crawford Market, Bombay 400003.

Tovoy Apparel Corpn., Agarwal Ind. Estate, 139, G(A) S. Vivekananda Rd., Jogeshwari West, Bombay 400060.

Trimfit Corpn., Medows House, Medows St., Bombay 400001.

Tunel Garments, 48, Clare Rd., Bombay 400008.

United Garment Manufg. Co., 3/24, Kamal Mansion, Arthur Bunder Rd., Bombay 400005.

Usha Garments Manufg. Co., 306, Jolly Bhuvan, 10, New Marine Lines, Bombay 400020.

Vanguard Dresses, 5 & 6, Shastri Bldg., 41, Gokhale Rd., Dadar W. Rly., Bombay 400028.

Vaswani Dresses, Ramsukh Market, 667, Raviwar Peth, Pune 411002.

Veracity Wear, 94, Raviwar Peth, Pune 411002.

Victor Apparel Pvt. Ltd., 142-C, N. M. Joshi Marg, Parel, Bombay 400013.

Vidya Dresses, 512, Sakharpeth, Sholapur 413001.

Wearwell Garments, Room No. 408, 4th Fl., Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.

Western Garments Manufg., Co., 308/312, Hind Rajasthan Ind. Estate, Naigaum Cross Rd., Wadala, Bombay 400031.

Wings Wear (Pvt.) Ltd., 7-A, Ramachandra Bldg., 280, Carnac Rd., Opp. G.T. Hospital, Bombay 400002.

Mysore

Asha Dresses Co., 306-10, S. Chhatram Rd., Bangalore 560009.

Bangalore Clothing Factory, 53, Nagarthpet, Bangalore 560002.

Bangalore Dress Manufg. Co. Pvt. Ltd., 12, Lalbagh Rd., Bangalore 560027.

Binny Ltd., Garment Factory, Hebbal, Bangalore 560006.

Lalitha Dress Manufg. Co., S. Jubilee Park Rd., Bangalore 560002.

Prakash Dress Manufg. Co., Kempegowda Rd., 3rd Cross, Bangalore 560009.

Pravin Dress Manufg. Co., 25, Oakleypuram, Bangalore 560021.

Swastik Dress Manufg. Co., Seshadripuram, Bangalore 560020.

Warewell (India) Corpn., 2-B, M. Gandhi Rd., Bangalore 560001.

Rajasthan

Readicut, Mirza Ismail Rd., Jaipur 302001.

Tamil Nadu

Asian Apparels, 81/82, Pondy Bazar, T. Nagar, Madras 600017.

Chellaram Garments Pvt. Ltd., 181/182, Mount Rd., Madras 600002.

CARBON DIOXIDE (CO_2) MFRS.

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A-123/124, Wagle Industrial Estate,
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Coromandel Garments Ltd., Ind. Estate, Plot No. 21, Ambathur, Madras 600058.
Danand Ind., No. 1, Pooni Nagar, Arasaradi, Madurai 600016.
Garments International, 2nd Fl., 19-A, Woods Rd., Madras 600002.
Goyal's Dresses, 109, Mount Rd., Goyal's Nivas, Madras 600018.
Kiddies Corner, 175/1, Mount Rd., Madras 600002.
Lakme Garments, 31/2, S. Naicken St., Madras 600007.
Madras Clothing Co., No. 21, Bobegan Sahib St., Mount Rd., Madras 600002.
Madras Garments, 274, T. Chetty St., Madras 600001.
T. S. Hajee Moosa & Co., 95, Godown St., Madras 600001.
Zoro Garments Pvt. Ltd., 1/43, Broadway, Madras 600001.

Uttar Pradesh

Acme Wears Pvt. Ltd., C-94/1, Ind. Area, Bulandshahr Rd., Ghaziabad 201001.
Kupid Children Wear, 24/53, Birhana Rd., Kanpur 208001.

West Bengal

Bagrees Pvt. Ltd., 201-B, M. Gandhi Rd., Calcutta 700007.
Hindustan Garments, 10/1, Marquis St., Top Fl., Calcutta 700016.
Kabra Clothing Corpn., 174-A, J. Bajaj St., Calcutta 700007.
Mercantile Corpn., 6/1, Sudder St., Calcutta 700016.
Poddar Dress Manufg. Co., 154, J. Bajaj St., Calcutta 700007.
Radhakrishan Sagarmull, 63, G. T. Rd., (South), Howrah 711101.
United Engg., Corpn., 72, Canning St., Calcutta 700002.

GEARS

Delhi

Cutler-Hammer India Ltd., 801, Akash Deep, Connaught Lane, New Delhi 110001.
Krishna Engg. Works, 8712, Aram Ganj, Roshanara Rd., Delhi 110007.

Gujarat

Elecon Engg. Co. Ltd., Vallabh Vidyanagar.
Jacks Engg. Works, Shastri Saghu, Udyognagar, Tavdipur, Ahmedabad 380004.

Haryana

Napco Beval Gears of India Ltd., Faridabad 121001.

Madhya Pradesh

Gajra Gears, Dewas 455001.

Maharashtra

Afco Ltd., Madh Island, Bombay 400059.
Britex Ind., 11, Noble Chambers, Ghogha St., Bombay 400001.
Communications & Power Equipment Co. Ltd., Ind. Estate, Lalbagh, Bombay 400012.
David Brown Greaves Pvt. Ltd., Forbes St., Bombay 400001.
Divgi Metalwares Pvt. Ltd., 9A, Yerandwana, Karve Rd., Pune 411004.
Emvee Engg. Works, 384, V. Savarkar Marg, Bombay 400025.
Gajra Gears, Green House, Green St., Bombay 400001.
Hindustan Gears Pvt. Ltd., Ind. Estate, Ogalewadi, Satara Dist.
Kirloskar Pneumatic Co. Ltd., Hadapsar Ind. Estate, Pune 411013.
Moulds & Dies Pvt. Ltd., Sunderbaug Estate, Agra Rd., Bombay 400070.
Port Engg. Works Ltd., Ali Chambers, Tamarind St., Bombay 400001.
Prime Engg. Works, A-13, Road 22, Wagle Ind. Estate, Thana 400604.
Precision Gears Pvt. Ltd., Tiecicon House, Haines Rd., Bombay 400011.
Ramon & Demm Ltd., S. Vivekanand Rd., Thana 400601.
Walchandnagar Ind. Ltd., P. O. Walchandnagar, Satara Dist.

Mysore

Craft Tools Pvt. Ltd., B1/2, Ind. Estate, Harihar.

Tamil Nadu

Earnest Engg. Ind., 2/124, P. N. Palayam, Coimbatore 611018.
Gears India, B-1, Ind. Estate, Guindy, Madras 600001.

West Bengal

Arthur Bagree & Co. (India), 40, Strand Rd., Calcutta 700001.
Bose Ind. Pvt. Ltd., 32, S. C. Chatterjee St., Belur, Howrah 711101.
Calicut Engg. Works Pvt. Ltd., 54-4-B, Strand Rd., Calcutta 700001.
Deepak Ind. Ltd., 16, Hare St., Calcutta 700001.
Flender Macneil Gears Ltd., 2, Fairlie Place, Calcutta 700001.
New Allenberry Works, 62, Hazra Rd., Calcutta 700019.

GLASS

Andhra Pradesh

Associated Glass Industries Ltd., Varadanagar, Kukatpally, Hyderabad 500018.
Mahalakshmi Glass Works Pvt. Ltd., Sanat Nagar, Hyderabad 500018.

Bihar

Seraikella Glass Works Pvt. Ltd., Kandra, Singhbhum Dist.

Gujarat

Alembic Glass Industries Ltd., Alembic Rd., Vadodara 390003.
Oval Glass Industries, Kanji, Kaira Dist.
Sarabhai Glass, P. B. 144, Subhanpura, Vadodara 390001.
Shree Vallabh Glass Works Ltd., Anand-Sojitra Rd., Vallabh Vidyanagar.

Haryana

Hindustan National Glass & Industries Ltd., Bahadurgarh, Rohtak Dist.
Hindustan Vacuum Glass Ltd., Faridabad.

Kerala

The Travancore Ogale Glass Manufg. Co. Ltd., P.O. Kalamassery, Alwaye 683104.

Maharashtra

Ajit Glass Works Pvt. Ltd., S. Vivekananda Rd., Jogeshwari, Bombay 400060.
All India Glass Works Pvt. Ltd., 111, Bhandari St., Bombay 400003.
Bharat Glass Works, Chembur, Bombay 400071.
Bombay Glass Works Pvt. Ltd., Manmala Tank Rd., Mahim, Bombay 400016.
Borosil Glass Works Ltd., Marol-Maroshi Rd., Off. Military Rd., Bombay 400059.
Crystal Glass Works Pvt. Ltd., Commercial House, P.B. 16575, Dr. A. Besant Rd., Worli, Bombay 400018.
Eagle Vacuum Bottle Manufg. Co. Pvt. Ltd., 144/46, S. Devji St., Chuckla, Bombay 400003.
Empire Dyeing & Manufg. Co. Ltd., Vitrum Glass Division, Bombay-Agra Rd., Vikhroli, Bombay 400083.
Fibreglass Pilkington Ltd., 9, Wallace St., Bombay 400001.
Glass Containers Pvt. Ltd., Saki Vihar Rd., Saki-Naka, Bombay 400072.
Haldyn Glass Works Pvt. Ltd., Off Western Express Highway, Goregaon East, Bombay 400063.
Hargovind Dharmsi & Co., 344, New Nagpada Rd., Bombay 400008.
Jg Glass Industries Pvt. Ltd., Bombay-Agra Rd., Pimpri, Pune 411018.
Kangan Pvt. Ltd., 208, Lady Jamshedji Rd., Bombay 400016.
Krishna Glass Pvt., Ltd., 23, Yusuf Bldg., 42, V. Nariman Rd., Bombay 400001.
Mahalakshmi Glass Works Pvt. Ltd., Dr. Moses Rd., West, Jacob Circle, Bombay 400011.
M. A. Kachwalla & Sons, 97-99, Dhanji St., Bombay 400003.
Ogale Galse Works Ltd., Ogalewadi, Satara Dist 415001.
Ogale Glass Works Ltd., Pimpri, Pune 411018.
Paisa Fund Glass Works, Talegaon-Dabhade, Pune Dist.
Patanwala Glass Works Pvt. Ltd., L.B. Shastri Marg, Ghatkopar (West), Bombay 400077.
Philips India Ltd., Plot No. 3, M.I.D.C. Ind. Area, Thana-Belapur Rd., Thana 400601.
Samir Glass Traders, 21-23, Dhanji St., Bombay 400003.
Star Glass Works, 299, Kurla-Andheri Rd., Kurla, Bombay 400072.
The Safeglass Corpn. Pvt. Ltd., 10-12, Gowalia Chawl Lane, Near Prakash Cotton Mills, Worli, Bombay 400013.
The Topaz Glass Pvt. Ltd., Eagle Estate, P.O. Talegaon, Pune Dist.
Vazir Glass Works Ltd., J.B. Nagar, Andheri-Kurla Rd., Bombay 400059.
V. Gopaldas & Co., 299, Y. Meherally Rd., Masjid Bunder, Bombay 400003.

Mysore

Alembic Glass Industries Ltd., Whitefield, Bangalore Dist.
Bengal Electric Lamp Works Ltd., Old Madras Rd., (13th Mile), Bangalore 560036.
Mysore Crystal Glass Industries, Tannery Rd., Nagavara, Bangalore 560002.
United Glass Bottles Manufg. Co. Pvt. Ltd., 9, Seshadri Rd., Bangalore 560009.

New Delhi

Bawa Glass Works, N-109, Panchshil Colony, New Delhi 110017.
Dhruv-Ganthe & Co. Pvt. Ltd., 8, Padmini Enclave, Hauz Khas, New Delhi 110016.
Pioneer Glass Works, Opp. Juma Masjid Dispensary, Delhi 110006.
Sylvania & Laxman Ltd., 68/2, Najafgarh Rd., New Delhi 110015.

Tamil Nadu

Attur Glass Industries Pvt. Ltd., Attur, Salem Dist.
Central Glass Factory, 403, Mint St., Madras 600001.
South India Glass & Enamel Works Ltd., 172, Cherry Rd., Salem 636007.
Vir Glass Works, 183, Madhavaram High Rd., Madhavaram, Madras 600060.

Uttar Pradesh

Advance Glass Works, Station Rd., Firozabad, Agra 282001.
Allahabad Glass Works Pvt. Ltd., Naini, Allahabad Dist.
C. B. Glass Works, Etmadpur, Agra.
Ganga Glass Works Pvt. Ltd., Balawali Bijnor Dist.
Hind Lamps Ltd., Shikohabad.
Khandelwal Glass Works, Sasni, Aligarh Dist.
Mohan Crystal Glass Works, Mohan Nagar, Ghaziabad 201001.
Narayan Glass Works, Sadar Bazar, Firozabad, Agra.
The Paliwal Glass Works, Shikohabad.
U. P. Glass Works Ltd., Bahjoi, Mordabad Dist.

West Bengal

Annapurna Glass Works Pvt. Ltd., Raja S.C. Mallick St., Calcutta 700032.
Ahoke Glass Works, 9, Ezra St., Calcutta 700001.
Asoka Glass Industries, P.O. Raniganj, Burdwan Dist.
Bengal Electric Lamp Works Ltd., 4, Fairle Place, Calcutta 700001.
Electric Lamp Manufrs. (Ind.) Pvt. Ltd., 1, Taratolla Rd., Garden Reach, Calcutta 700024.
Hindustan National Glass & Industries Ltd., 2, Wellesley Place, Calcutta 700001.
New Indian Glass Works Pvt. Ltd., Rawdon St., Calcutta 700016.
Saraikella Glass Works Pvt. Ltd., P.O. Konnagar, Hooghly Dist.
Shiva Glass Works Co. Ltd., 27, Brabourne Rd., Calcutta 700001.

GLASS BOTTLES

Ajit Glass Works Pvt. Ltd., S. Vivekananda Rd., Bombay 400060.
Associated Glass Ind. Ltd., Varadanagar, Sanatnagar, Hyderabad 500018.
Bombay Glass Works Pvt. Ltd., Manmala Tank Rd., Mahim, Bombay 400016.
Haldyn Glass Works Pvt. Ltd., Off Western Express Highway, Goregaon East, Bombay 400063.
Mahalakshmi Glass Works Pvt Ltd., Sanatnagar, Hyderabad 500018.
Standard Bottles Supply Co., 88, Ragipet, Bangalore.
United Glass Works Pvt. Ltd., 111, Bhandari St., Bombay 400003.

ANDLOOMS & HANDICRAFTS

elhi

ata Cottage Ind. of India, F-23, D. B. Gupta Market, Karol Bagh, New Delhi 110005.
astern Linkers Pvt. Ltd., Odeon Bldg., Connaught Place, New Delhi 110001.
[illegible] Export & Agencies, C-9, Maharani Bagh, New Delhi 110014.
dian Arts & Crafts Syndicate, 2666, Ballimaran, Delhi 110006.
. K. Overseas Traders, M-30A, Greater Kailash I, New Delhi 110048.
aramount Traders, 4/47 W.E. Area, Karol Bagh, New Delhi 110005.
. D. Ramnath Co., Jama Masjid, Delhi 110006.
eliance International Corpn., 4/2B, Asaf Ali Rd., New Delhi 110001.
. Nath Kakar & Son, 41, Hanuman Rd., New Delhi 110001.
. Ram Singh & Sons, 119, New Qutab Rd. Market, Delhi 110006.

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ndia Handicrafts, 2751, Tilak Rd., Kadia Kui, Ahmedabad 380001.

aharashtra

. Peerbhoy & Sons, 64, Mohd-Rd., Shahru-Castle, Bombay 400003.
. Ramon & Co., Pvt. Ltd., Ramon House, 169, Backbay Recl., Bombay 400020.
arang (Overseas) Co. Pvt. Ltd., 93, B. Desai Rd., Bombay 400026.

Tamil Nadu

John & Co., 'Burma House', 16, Coral Merchant St., Madras 600001.
Lotus Ind. Ltd., "Burma House", 16, Coral Merchant, St., Madras 600001.

West Bengal

East India Trdg. Co., 2, Church Lane, Calcutta 700001.
Haji Lungi Co., 20, Zakaria St., Calcutta 700001.

HEATING APPLIANCES

(Industrial—ovens, incubators etc.)

Andhra Pradesh

Cosco Electricals Appliances & Equipments, C-32, Sanatnagar, Hyderabad 500018.
Scientific Electricals Sales Pvt. Ltd., Shalibanda, Hyderabad 500002.

Delhi

C.P.N. Industries, 18, Najafgarh Rd., New Delhi 110015.
Ghaziabad Engg. Co, Pvt. Ltd., 42, Janpath, New Delhi 110001.
Prestige Electronics Pvt. Ltd., 16-B, Connaught Place, New Delhi 110001.

Gujarat

Panchal Engg. Works, Dariapur, Char Rasta, Ahmedabad 380001.

Maharashtra

B. R. Hermann & Mohatta (India) Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.
Chetan Electric Ind., Allied Ind. Estate, Unit No. 125, M. M. Chhotani Rd., Mahim (West), Bombay 400016.
Commonwealth Electrical Ind., 116, Himalaya House, Palton Rd., Bombay 400001.
Diamond Electrical Engrs., Parikh Niwas, 57, Marve Rd., Malad (West), Bombay 400064.
Economic Electric Co. Pvt. Ltd., Jail Rd., East, Dongri, Bombay 400009.
Economy Engg. Corpn., 19, Bank St., Bombay 400001.
Electronic Appliances Pvt. Ltd., A-Z, Ind. Estate, Ferguson Rd., Bombay 400013.
Giri Industries, Empire Ind. Estate, Galla No. 15, 16, 17, 18, Kondivita Rd., J. B. Nagar, Andheri (East), Bombay 400059.
Industrial Control & Appliances Pvt. Ltd., 47-49, Chakala Rd., Andheri, Bombay 400058.
Janata Works Pvt. Ltd., 162, Tulsi Pipe Rd., Bombay 400013.
Kissan Manufg. Industries Pvt. Ltd., 186 Zakaria Bunder Rd., Bombay 400015.
Lamda Industries, 201, Neelam, 108 Worli Seaface Rd., Bombay 400018.
Navbharat Electrical Ind., 'Premji Chambers', Hospital Lane, Nr. Bombay Hospital, Bombay 400020.
Nestler Boilers Pvt. Ltd., Love Lane, Cross Lane, Byculla, Bombay 400027.
P. Khabardardar Electric Works, 191, Dr. Ambedkar Rd., Opp. Chitra Cinema, Dadar, Bombay 400014.

HEAT EXCHANGERS

RELIANCE HEAT TRANSFER PRIVATE LIMITED

46, Veer Nariman Road, Bombay 1.

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Designers & Mfrs. of :

Heat Exchangers, Aftercoolers, Oil Coolers, Condensors, Chillers, Preheaters to TEMA & ISI Standards and also Electrical Heating Equipment to your specific requirements.

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Phones : 257004 & 290985.
Telex : 011-3801.
Cable : " ROTOCLEAN ".

Pratik Heat Products, 131, Dadyseth Agiary Lane, Bombay 400002.
Reliance Heat Transfer Pvt. Ltd., 46, Vir Nariman Rd., Bombay 400001.
Tempo Ind. Corpn., 1, Lamington Chambers, 394, Dr. Bhadkamkar Marg, Bombay 400004.
Vikas Electrics Pvt. Ltd., Govandi Station Rd., Bombay 400071.

Mysore

Radio & Electrical Manufg. Co. Ltd., Mysore Rd., Bangalore.
Swarna Electricals, 73, 1st Main Rd., Tata Silk Farm, Bangalore.

Punjab

Pioneer Enamelling Works, G. T. Rd., Cheharta, Amritsar.
Universal Engg. Works, Sultanwind Rd., Amritsar.

Tamil Nadu

Electro-Mech. Instruments, 49, T. H. Rd., Madras 600019.
Hygrodyn Pvt. Ltd., 1/155, Mount Rd., Madras 600002.
Murugan Electricals, 4, Brunton Cotton Press Rd., Madras 600013.
Power Control & Appliances, F-11, Ind. Estate, Madras 600058.
South India Export Co. Ltd., 20 Gen. Palters Rd., Madras.

West Bengal

ACC-Vickers-Babcock Ltd., Durgapur.
Adair Dutt & Co. (India) Ltd., 5, Dalhousie Sq. (East), Calcutta 700001.
Beni Engg. Ltd., 1, Crooked Lane, Calcutta 700001..
Bharat Sheet Metal Industries Ltd., 36A & B, Pratapaditya Rd.,Calcutta 700020.
Everest Appliances Pvt. Ltd., 12, Nirmal Chandar St., Calcutta 700013.
General Electric Co. of India Pvt. Ltd., Magnet House, C 7, Chandar Ave., Calcutta 700013.
Getz Bros. & Co., Inc., 9, Brabourne Rd., Calcutta 700001.
Heat Treater Industries (India) Pvt. Ltd., 135, Canning St., Calcutta 700001.
Jay Engg. Works Ltd., Prince Anwarshah Marg., Calcutta 700001.
Sur Industries Pvt. Ltd., 163, Acharya J. B. Rd., Calcutta 700014.
Tarif Appliances & Equipments Pvt. Ltd., 1-1, Dover Lane, Calcutta 700029.
Wesman Combustion Equipment Co. Pvt. Ltd., Allenby Court, 1/2 Allenby Rd., Calcutta 700020.

HYDRAULIC EQUIPMENT

C. Bole & Co., 61, N. Dhuru St., Bombay 400003.
Garlick & Co. Pvt. Ltd., Haines Rd., Jacob Circle, Bombay 400011.
Hind Equipment Corpn. Pvt. Ltd., 24B, Hamam St., Bombay 400001.
Hindustan Machine Tools Ltd., Bangalore 560031.
Indudyog Co. Pvt. Ltd., 40, Okhla Ind. Estate, New Delhi 110020
Krampe Hydraulik (India), 105, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.
Maneklal & Sons, 115, N. Dhuru St., Bombay 400003
Marsan Machinex, 76, Erla Bridge, Andheri, Bombay 400058.

AIR & HYDRAULIC EQUIPMENT

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Balanagar, Hyderabad 37.

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Manufacturers of :

Air & Hydraulic Cylinders, Control Valves including Solenoid operated, Air Bench Presses, Linear Air Motors, Air Filters, Regulators & Lubricators, Hydraulic Gear Pumps and Rotary Actuators.

The Oriental Engineering Works Pvt. Ltd., Ind. Area, Yamuna Nagar, Dist. Ambala, Haryana.
Power Hydraulics, 3/11, Navjeevan Society, Lamington Rd., Bombay 400008.
Ram Precision Products Pvt. Ltd., Gopalbagh, Coimbatore 641001.
Schrader-Scovill Duncan Ltd., Mulund, Bombay 400080.
Sterling Hydraulic Co., 142, S. Vivekanand Rd., Bombay 400060.
Workwell Engineers, Behind Sukhramnagar, Rakhial, Ahmedabad 380021.

INSTRUMENTS (PROCESS CONTROL AND PRECISION)

Andhra Pradesh

Andhra Scientific Co. Ltd., Cantonement Rd., Masulipatnam 521001.
J. N. Marshall & Co., Basheerbagh, Hyderabad 500029.

Maharashtra

Applied Electronics Pvt. Ltd., A-5, Wagle Ind. Estate, Thana 400601.
Ashok Sunil & Co. Bandbox House, Prabhadevi, Bombay 400025.
Bajaj Electrical Ltd., 45-47, V. Nariman Rd., Bombay 400001.
Cambridge Instruments (India) Ltd., Bombay-Pune Rd., Pimpri, Pune 411018.
Elmecon Manufg. Co., P. B. No. 93, Pune 411001.
General Instruments Co., 130, Girgaum Rd., Bombay 400004.

Hindustan Precision Instruments Pvt. Ltd., Pimpri, Pune 411018.
J. N. Marshall Pvt. Ltd., Bombay-Pune Rd., Pimpri P. F., Pune 411018.
Mahle-Star Electronic Equipments Pvt. Ltd., Dhanraj Mahal, Apollo Bunder Rd., Bombay 400001.
Metzer (India) Optical Instruments Co., 79, Palton Rd., Bombay 400001.
Phillips India Ltd., Shivsagar Estate, Dr. A. Besant Rd., Bombay 400018.
Pyrotech Instruments Corpn., 340, Jaigopal Ind. Estate, 510, Bhavani Shankar Rd., Bombay 400028.
Spirax-Marshall Ltd., Bombay-Pune Rd., Pimpri P. F., Pune 411018.
Star Trdg. Co. Pvt. Ltd., Dhanraj Mahal, Apollo Bunder, Bombay 400001.
Toshinwal Bros. Pvt. Ltd., 198, J. Tata Rd., Bombay 400001.
Tradeweld, 7, Kakad Chambers, 132, Dr. A. Besant Rd., Worli, Bombay 400018.
Vijay Lakshmi Electric Co., Sitaram Bldg., 37, Dr. D. Naoroji Rd., Bombay 400001.

Rajasthan

Instrumentation Ltd., Kotah-Jhalawar Rd., Kotah 324001.

West Bengal

Bestobell India Ltd., Grosvenor House, 21 Camac St., Calcutta 700016.
H. Guru Instruments Pvt. Ltd., 10B, Ho Chi Minh Sarani, Calcutta 700016.
Mahindra & Mahindra Ltd., 6, Little Russel St., Calcutta 700016.
Mansfield Oil & Gas Co. Ltd., 16, R. Chaudhary Rd., Calcutta.
National Instrumente Ltd., Jadavpur, Calcutta 700032.
Precision Tools and Instruments, 50-B, Gariahat Rd., Calcutta 700019.
Process Control Equipment Co., 55, J. Mitter St., Calcutta 700005.
W. J. Alcock & Co. Pvt. Ltd., K. S. Ray Rd., Calcutta 700001.

LABORATORY EQUIPMENT

(For Survey, Analytical, Meteorological and Educational labs.)

Andhra Pradesh

Andhra Scientific Co. Ltd., Cantt. Rd., Machilipatnam 521001.
Elico Pvt. Ltd., B-17, Ind. Estate, Sanatnagar, Hyderabad 500018.

Delhi

Apothecaries' Sundries Manufg. Co., 19, Amrit Kaur Market, New Delhi 110055.
Ashoka Scientific Ind., 42, New Lajpat Rd., Market, Delhi 110006.
Asian Scientific Instruments Co., 12, Chadha Basti Harphool Singh, Sadar Thana, Delhi 110006.
Batra & Co., A-136 Defence Colony, New Delhi 110024.
Chhabra Scientific Ind., 1928, Malka Ganj Rd., Delhi 110007.
Continental Sales Syndicate, T-715, D.C.M. Rd., Delhi 110006.
Delhi Scientific Works, Ajmeri Gate, Delhi 110006.
Emkay Scientific Corpn., 36 U. B. Jawahar Nagar, Delhi 110007.
K.L.K. Scientific Ind., 313, Dhir Pur, Nirankari Colony, Delhi 110009.
Neulite Engg. Corpn, 63, Hari Nagar Ashram, Mathura Rd., New Delhi 110014.
Optical Instrumentation (India), 21, Beadon Pura, Karol Bagh, New Delhi 110005.
P.S.R. Chemical Ind., Mori Gate, Delhi 110006.
Precision Scientific Equipment Corpn., 16, Patel Rd., S. Patel Nagar, New Delhi 110008.
Rashtriya Optical Traders, 4, Darya Ganj, Delhi 110006.
Towa Optics (India) Pvt. Ltd., 4, Darya Ganj, Delhi 110006.
Up-to-date Optical Works, 21, Beadon Pura, Karol Bagh, New Delhi 110005.

Gujarat

Hindustan Ophthalmic Lens Manufrs., opp. Kothi Bus Stand, Vadodara 390001.
Sunil Engg. Works Sindwaimata Rd., Pratapnagar, Vadodara 390004.
Surgical Equipment Manufg. Co., 1 B. Kalpana Bhoomi Estate, Dhudeshwar Rd., Ahmedabad 380001.

Maharashtra

Associated Instruments Manufrs. (India) Pvt. Ltd., India House, W. Hirachand Marg, Bombay 400001.
Borosil Glass Works Ltd., 44, Khanna Construction House, M. A. Gaffar Rd., Worli, Bombay 400018.
Cintex Ind. Corpn., 237, Jaigolpal Ind. Estate, Bhavanishanker Cross Rd., Dadar, Bombay 400028.
Delhi Scientific Works, 12, J. B. Nagar, Andheri, Bombay 400059.
Dubash Freres & Co., Victoria Bldg., Parsee Bazar St., Bombay 400001.
Eltron India, B-18, Giriraj Ind. Estate, Mahakali Rd., Chakala, Bombay 400069.
Kumar & Co., 31, Old Post Office Lane, Kalbadevi Rd., Bombay 400002.
Lab-Hosp. Corpn., Katrak Compound, Gaiwadi, Girgaum, Bombay 400004.
Lab Instruments, 87, V. Patel Rd., Bombay 400004.
Labequip Corpn., 15, Gulbahar, Barrack Rd., Bombay 400002.
Lawrence & Mayo (India) Pvt. Ltd., 274, Dr. D. Naoroji Rd., Bombay 400001.
M.S.C.O. Pvt. Ltd., 301, Dr. E. Moses Rd., Worli Naka, Bombay 400018.
M. Shah & Co., Kanji Mansion, 311, S. Patel Rd., Bombay 400004.
Modern Scientific Ind., 58, C. Govt. Ind. Estate, Kandivli West, Bombay 400067.
Polar Ind. Corpn., Devkaran Mansions, 43, Princess St., Bombay 400002.
Raj-Der-Kar & Co., Sadhana Rayon House, Dr. D. Naoroji Rd., Bombay 400001.
Dr. Rao's Lab., 27, Cama Ind. Estate, Walbhat Rd., Bombay 400063.
Ravindra Heraeus Pvt. Ltd., 133, Dr. A. Besant Rd., Bombay 400018.
Rolla Ind. Corpn., Sainath Ind. Estate, Shed "E", Off Aarey Rd., Goregaon East, Bombay 400063.

Scientific & Technical Home, 443, Lamington Rd., Bombay 400004.

Silica Ware Pvt. Ltd., 54, C. Chotani Estate, Proctor Rd., Bombay 400007.

Technical Instruments Manufrs. (India) Pvt. Ltd., Plot 6 A, Shanti Nagar, Santacruz East, Bombay 400055.

Tempo Semi Conductors, Divn. of Primco Pvt. Ltd., 18, Subash Rd., Vile Parle East, Bombay 400057.

Thermolab Equipment Co., B-9, MIDC Udyog Bhavan, Mahakali Caves Rd., Andheri East, Bombay 400093.

Unique Trdg. Corpn., 221, S. Devji St., Bombay 400003.

Universal Scientific Glass Apparatus Manufg. Ind., S. Vivekanand Rd., Ram Baug, Malad West, Bombay 400064.

Mysore

Mysore Tools Ltd., Coffee Board Bldg., Bangalore 560001.

Tamil Nadu

Altech Industries, 471, P. N. Palayan Rd., P.O. Ganapathy, Coimbatore 611006.

Engineering Equipment Enterprise, Satyamangalam Rd., P.O. Ganapathy, Coimbatore 611006.

Instruments & Chemicals Pvt. Ltd., 334, Thambu Chetty St., Madras 600001.

West Bengal

Arora Mathey Ltd., 166, N. Subash Bose Rd., Tollygunj, Calcutta 700040.

East End Engineers, 52, B. Bose Ave., Calcutta 700004.

Eastern Ind. Trdg. Corpn., 92 B. Chittaranjan Ave., Calcutta 700012.

Eastern Scientific Co., 4, College St., Calcutta 700012.

Geologists' Syndicate Pvt. Ltd., 137, B. R. Basu Rd., Calcutta 700001.

India Instruments Manufg. Co., 208, Bow Bazar St., Calcutta 700012.

Killearn & Co., 106/C, Raja Dinendra St., Calcutta 700004.

Overseas Trade Corpn., 133, Canning St., Calcutta 700001.

Premier Scientific Glass Co., 26/2A, P. K. Tagore St., Calcutta 700006.

Scientific Repairs & Trdg. Co. Pvt. Ltd., 13, Canal St., Calcutta 700014.

Scientific Supplies, 55, Canning St., Calcutta 700001.

Scientific Syndicate, 172, B. P. Ganguly St., Calcutta 700012.

Scientific Equipment Supplying Corpn., 59/A, Kali Temple Rd., Calcutta 700026.

Scientific Glass Works, 35, G. Chatterji Rd., Calcutta 700002.

LEATHER & LEATHER PRODUCTS

Delhi

Nava Bharat Enterprises Pvt. Ltd., 101-A, Surya Kiran, K. Gandhi Marg, New Delhi 110001.

Gujarat

Beltex Pvt. Ltd., Ellis Bridge, Ahmedabad 380002.

Hides and Leather Products Pvt. Ltd., Reid Rd., Ahmedabad 380001.

Pickers Ltd., Ellis Bridge, Ahmedabad 380006.

Haryana

Bata Shoe Co. Ltd., Faridabad 121001.

Maharashtra

Art Home, 4, Jerbai Baug, Byculla, Bombay 400027.

Artistic Leather Goods & Accessories, National House, Tulloch Rd., Bombay 400001.

Gold Filled Leather Works, 157-161, Princess St., Bombay 400002.

Kamal Leather Works, Md. Ali Bldg., M. Ali Rd., Bhendi Bazar, Bombay 400003.

Leather Art Ind., Swadeshi Market, Bombay 400002.

Noble Leather Works, 82-86, A. Rehman St., Bombay 400003.

Pioneer Leather Works, Sitaram Bldg., Crawford Market, Bombay 400001.

Textile Leather Works Ltd., Crescent Chambers, Tamarind Lane, Bombay 400001.

Western India Tanneries Ltd., 2-A, Dharain Rd., Bombay 400017.

Orissa

Govt. Tannery, P.O. Bandhrak, Phulbani Dist. 756100.

Punjab

Kapurthala Leather Products Pvt. Ltd., Kapurthala 144601.

Tamil Nadu

Chromotan (Coimbatore) Ltd., Avanashi Rd., Coimbatore 641001.

Dindigul Co-op. Leather Works Ind., Society Ltd., Dindigul 624001.

Gordon Woodroffe Leather Manufg. Co. Ltd., 1/21, North Beach Rd., Madras 600001.

Jayam Trading Corpn., 26, K. Sadayappan St., Madras 600003.

Tiruchy Leather Goods Producers Ind. Co-op. Society, Tiruchirapalli 620001.

Uttar Pradesh

Agra Leather Board Pvt. Ltd., Agra 282001.

Pioneer Tanneries & Glue Works, Jajman, Kanpur 208001.

Prime Products Ltd., P. Box No. 80, Kanpur 208001.

Tannery & Footwear Corpn. of India, 13/400, Civil Lines, Kanpur 208001.

Wabbing & Belting Factory Ltd., G. T. Rd., Ghaziabad 201001.

West Bengal

A. Abdul Shakoor & Co., 8, Sydenhams Rd., Calcutta 700001.

Birkmyre Bros. Ltd., 67, Stephen House, Dalhousie Sq. East, Calcutta 700001.

Calcutta Leather & Allied Products Marketing Co-op. Society Ltd., 13-S, Tangra Rd., Calcutta 700014.

Chinese Leather Syndicate Ltd., 56, South Tangra Rd., Calcutta 700039.

I.E.C. Ltd., 47, South Tangra Rd., Calcutta 700039.

International Tanning Industries, 4, Ghulam Jilani Khan Rd., Calcutta 700039.

J. H. Fenner & Co. (India) Pvt. Ltd., Mercantile Bldg., Lalbazar, Calcutta 700001.

Morrison & Cottle Pvt. Ltd., 30-G, J. Nehru Rd., Calcutta 700016.

National Tannery Co. Ltd., Mercantile Bldg., Lall Bazar St., Calcutta 700001.

P. Basak & Co., 9, Chidam Modi Lane, Calcutta 700006.
Tekno Rubber & Plastic Works, 14, Chandni Chowk St., Calcutta 700013.

LEATHER FOOTWEAR

Andhra Pradesh

Leather & Shoe Makers Ind. Co-op. Society, Jagtila, Karimnagar Dist.

Bihar

Chambar Ind. Co-op. Soc. Ltd., P.O. Bihar Sharif, Patna Dist.
Govt. Footwear Factory, Darbhanga 846004.

Maharashtra

Bombay Footwear Pvt. Ltd., Dharani Rd., Bombay 400017.
Carona Sahu Co. Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.
Dawood Co., Kerawala Mansion, Carnac Rd., Bombay 400002.
Goldfield Leather Works, S. Gandhi Marg, Bombay 400002.
Goldwyn Leather Works, Sitaram Bldg., D. Naoroji Rd., Bombay 400001.
J.J. & Sons, Prathana Samaj, Bombay 400004.
Sahyog Footwear Production Centre, 280, Dharain, Bombay 400017.
Western India Tanneries Ltd., Dharain, Bombay 400017.

Mysore

Tanners & Leather Goods Producers Co-op. Sales Society Ltd., Srinivaspur, Kolar Dist.

Tamil Nadu

Govt. Footwear Production Cum Service Centre, Krishnadas St., Madras 600001.

Uttar Pradesh

Agra Co-op. Marketing Society Ltd., 1251, Kachora Bazar, Agra 282001.
Agra Cottage Industries, Shoe Workers' Association, Har Parbal, Agra 282001.
Agra Footwear Co-op. Syndicate, Hing ki Mandi, Agra 282001.
Baluja Footwear Co., Tikonia Bazar, Agra 282003.
Bharat Kala Kendra Pvt. Ltd., Govind Pur, Modinagari.
Caxton Footwear Co., Shoe Market, Agra 282003.
Taj Tannery Ltd., Tajganj, Agra 282001.
Tannery & Footwear Corpn. of India Ltd., Civil Lines, Kanpur 208001.
Textila Footwear Co. (India) Pvt. Ltd., 50, Lajpat Kunj, Agra 282001.
Upper India Leather Works, 98/88, Nazarabagh, Kanpur 208001.

West Bengal

Bata Shoe Co. Pvt. Ltd., Batanagar, 743313.
Bensen Ind., 96, Sri Aurobindo Rd., Salkia, Howrah 711101.
Glace Kid (India) Ltd., 22-1, Gorachand Rd., Calcutta 700001.
D.T.I. Leather Experts Co-op. Soc. Ltd., C/o College of Leather Technology, Calcutta 700001.
P. Bask & Co., 9, Chidam Mudi Lane, Calcutta 700006.

MACHINERY, MISC.

Aerating Machines

Esoofaly Mohamedaly & Co., 102/4, Sarang St., Bombay 400003.
Rajaram Bhiku & Sons, New Prabhadevi Rd., Bombay 400025.

Baking Machinery

Indo-Burma Petroleum Co. Ltd., Gillander House, N. Subash Rd., Calcutta 700001.
Sembhi Ind., Hoshiarpur Rd., Jullundur City 144001.
Small Machinery Manufg. Co., 22 R. G. Kar Rd., Shambazar, Calcutta 700004.

Building Machines

Bengal Hardware & Co., 70, N. Subash Rd., Calcutta 700001.
Sujauddin & Co., 75, N. Subash Rd., Calcutta 700001.

Bottling Machinery

Indo-Burma Petroleum Co. Ltd., Gillander House, N. Subash Rd., Calcutta 700001.

Braiding Machines

Todi Ind. Pvt. Ltd., Todi Estates, Lower Parel, Bombay 400013.

Brick-making Plants

Andrew Yule & Co. Pvt. Ltd., 32 Nicol Rd., Ballard Estate, Bombay 400001.
Corporated Engrs. India Ltd., Chittaranjan Ave., Calcutta 700001.
Kathiawar Metal & Steel Works Pvt. Ltd., Lati Plot Near City Stn. Rajkot 360001.
National India Engg. Co. Pvt. Ltd., 7, Horniman Circle Bombay 400001.

Candle-making Machines

Jayendra Metal Ind. Ltd., Shastriwada, opp. College, Sayajigunj, Vadodara 390005.

Cement-making Machinery

ACC-Vickers Babcock Ltd., Express Towers, Nariman Point, Bombay 400020.
Minato Shirke Concrete Machines Pvt. Ltd., 72-76, Mundhwa, Pune 411001.
Rohit Machines Corpn., 14 Rani Jhansi Rd., Motia Khan, New Delhi 110055.

Ceramic Machinery

Gidwaney Bros., 73, N. Subash Rd., Calcutta 700001.

Chemical Plants & Machinery

Anup Engg. Ltd., Anil Starch's Premises, Anil Rd., Ahmedabad 380002.
Chemech Engineers Pvt. Ltd., 16/3, Sterling Rd., Nungambakkam, Madras 600034.
Chemical Construction Co. Pvt. Ltd., 57, Ring Rd., Lajpat Nagar 111, New Delhi 110024.
Incecon Chemical Engg. & Construction Co. Pvt. Ltd., 187, M. Gandhi Rd., Secunderabad 500003.
Modern India Machine Tools Pvt. Ltd., 18/1/6, Canal West Rd., Calcutta 700009.
Rathi Engg. Works, 27, Shankersheth Rd., Pune 411009.
Sethi Engg. Works, 598, Hamilton Rd., Delhi 110006.

Construction Equipment

Ingersoll Rand India Pvt. Ltd., 7, Wellesley Place, Calcutta 700001.
Lynx Machinery Ltd., 104, Ultadanga Main Rd., Calcutta 700004.
Uttam Wires & Machines Pvt. Ltd., 27, Najafgarh Rd., New Delhi 110015.

Dairy Machinery

G. R. Engg. Works Pvt. Ltd., G. R. House, 86, M. Vasanji Rd., Bombay 400059.
Jyoti Ind., C-31 Ind. Estate, Sanatnagar, Hyderabad 500018.
Kishore Trdg. Corpn., Makanji Niwas, Naoroji Lane, Ghatkopar, Bombay 400086.
New Lahore Engg. Co., Munshi Niketan, A. Ali Rd., New Delhi 110001.
Vulcan Laval Ltd., Mustafa Bldg., 7-A, Sir P. Mehta Rd., Bombay 400001.

Domestic Flour Mill

Ramesh Ind., Saki Naka, Bombay 400072.

Drilling Machines

Radha Foundry, 6/2, A. Rehman St., P.O. Red Fields, Coimbatore 611018.

Earth-moving Equipment

Equipment & Machinery Corpn. India Pvt. Ltd., 3/15 A. Ali Rd., New Delhi 110001.
Hindustan Tractors Ltd., Tractor House, Vishwamitri, Vadodara 390001.
Indo Trdg. Enterprises, 20, N. Subash Rd., Calcutta 700001.
Marshall Sons & Co. India Ltd., 33/1, N. Subash Rd., Calcutta 700001.

Electroplating Plants

Grauer & Weil India Ltd., Sukh Sagar, Hughes Rd., Bombay 400007.

Embossing Machines

Bradma of India Ltd., Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.

Food Processing Machinery

Mather & Greaves Ltd., Chinchwad, Pune 411019.
Universal Mechanical Works Pvt. Ltd., off Ferguson Rd., Worli, Bombay 400018.
Vitro Pharma Products Pvt. Ltd., 89 Ind. Estate, Kandivli, Bombay 400067.
Vulcan Laval Ltd., Mustafa Bldg., 7-A, Sir P. Mehta Rd., Bombay 400001.

Gas Plants

Mansfield Oil Gas Co. Ltd., 16 R. Chowdhury Rd., Calcutta 700015.
Mechanical Machinery Makers Pvt. Ltd., 67, Ekdalia Rd., Calcutta 700019.
SF India Ltd., P.O. & Village Jalkhura, 24 Parganas.

Ink Making Machinery

Doshi Engg. Works, Nagardas Rd., Andheri, Bombay 400069.
Pioneer Engrs., 57, Apollo St., Bombay 400001.

Jute Mill Machinery

Machine & Mill Stores Corpn. Pvt. Ltd., 76/19 Benares Rd., Howrah 700001.
Nipha Machinery Manufrs. Pvt. Ltd., 25 N. Subash Rd., Calcutta 700001.
Oriental Electric & Engg. Co., National Tobacco Bldg., 1, Old Court House Corner, Calcutta 700001.
Spinn-Well Pvt. Ltd., 6, Dilarjang Rd., Cossipore, Calcutta 700002.
Texwell Pvt. Ltd., 23A, N. Subash Rd., Calcutta 700001.

Marble Cutting & Polishing Machines

Machinery & Equipment Manufrs. Pvt. Ltd., Rakhial Rd., Gomtipur, Ahmedabad 380023.

Marine Engines

Garden Reach Workshops Ltd., 43/46, Garden Reach Rd., Calcutta 700024.

Milling Machines

ACC Vickers Babcock Ltd., Durgapur 6.
Arya Manufg. Co., 69, Shradhanand Marg, New Delhi 110006.
Barmi Engg. Works, Grand Trunk Rd., Qabool Nagar, Shahdara, New Delhi 110032.
Chopra Machines Corpn., 27/2C, Strand Rd., Calcutta 700001.
CTR Manufg. Ind. Ltd., Nagar Rd., Pune 411014.
International Combustion India Pvt. Ltd., 101, Park St., Calcutta 700016.
Regal Engg. Co., 10, Canning St., Calcutta 700001.
United Engg. Eastern Corpn., 22, B.R.B. Bose Rd., Calcutta 700001.

Mineral Beneficiation Machinery

Mineral Process Equipment, opp. Borosil Glass Works, Marol Maroshi Rd., Bombay 400059.

Mining Machinery

Premier Machines Pvt. Ltd., 59, Najafgarh Rd., New Delhi 110015.
Vulcan Laval Ltd., Mustafa Bldg., 7-A, Sir P. Mehta Rd., Bombay 400001.

Oil Mill Machinery

Krishna Engg. Workshop, Charminar Factory Rd., Azamabad, Hyderabad 500020.
Nutak Engrs., 48, Saki Vihar Rd., Saki Naka, Bombay 400072.
United Oil Mill Machinery & Spares Pvt. Ltd., D-298 Defence Colony, New Delhi 110024.

Packaging Machinery

Indo Europa Trdg. Co. Pvt. Ltd., 1390, Chandni Chowk, Delhi 110006.
Kishore Trdg. Corpn., Makanji Niwas, Naoroji Lane Ghatkopar, Bombay 400086.
Master Mechanical Works, Empire Ind. Estate, Kondivita Rd., Andheri East, Bombay 400059.
Metal Box Co. of India Ltd., Barlow House, 59 C. Chowringhee, Calcutta 700020.
Modern India Machine Tools Pvt. Ltd., 18/1/6, Canal West Rd., Calcutta 700009.
Quality Machinery Pvt. Ltd., Sector 6, Faridabad.
Shah & Co., 161/63, Charni Rd., Bombay 400004.

Shaw Engg. Works, 227, Minicktala Main Rd., Calcutta 700054.
Technopak Engg. Co., 43, Kasturba Rd. Cross, Bangalore 560001.
Vulcan Laval Ltd., Mustafa Bldg., 7-A, Sir P. Mehta Rd., Bombay 400001.
XL Equipments Pvt. Ltd.,1 3/A, Rasulpura, Secunderabad 500003.

Paper Plant

Andrew Yule & Co. Ltd., 32, Nicol Rd., Ballard Estate, Bombay 400001.
Bertrams Scott India Ltd., 1/1, Kimber St., Calcutta 700017.
Eastern Paper Mills Ltd., 1, Dakshindari Rd., Calcutta 700048.
Supanekar Machine Ind. Pvt. Ltd., Gultekadi Rd., Near Swargate, Pune 411009.

Pattern Cutting Machines

John T. Hardaker India Pvt. Ltd., Ferguson Rd., Lower Parel, Bombay 400013.

Potato Wafer Making Machines

Hindustan Engg. Co., Aban House, 25, Ropewalk St., off Rampart Row, Bombay 400001.
National Small Ind. Corpn., Prestige Chambers, Kalyan St., Bombay 400009.

Polishing Machines

Adair Dutt & Co. India Pvt. Ltd., 5, Dalhousie Sq. East, Calcutta 700001.
Nistarini Electric Co. Pvt. Ltd., 48/1, Grand Trunk Rd., Baidyabati, Hooghly Dist.

Printing Press Machinery

Gunvantray & Co., Haranwali Pole, Khadia Char Rasta, Ahmedabad 380001.
Indo-Europa Trdg. Co. Pvt. Ltd., Bhupen Chambers, 9, Dalal St., Bombay 400001.
Indo European Machinery Co. Pvt. Ltd., Jajodia Mansions, 5, Bentinck St., Calcutta 700001.
Machinex V3, 509/B. Neelkanth, 98, Marine Drive, Bombay 400002.
Monotype Corpn. Ltd., India House, opp. G.P.O., Bombay 400001.
Nutex India Pvt. Ltd., 79, Princess St., Bombay 400002.
Printer's House Pvt. Ltd., 10, Scindia House, Connaught Place, New Delhi 110001.
R. Pardiwala & Sons, 320, Prasad Chambers, Swadeshi Mills Comp., Bombay 400004.

Rice Mills Machinery Manufacturers

G. G. Dandekar Machine Works Ltd., Dandekarwadi, Bhiwandi, Thana Dist.

Road Making Machines

Jessop & Co. Ltd., 63, N. Subash Rd., Calcutta 700001.
Marshall Sons & Co. (India) Ltd., 33/1, N. Subash Rd., Calcutta 700001.
United Tractors Service, 28, Biplabi A. Chandra St., Calcutta 700013.

Small Distillery Plants

APV Engg. Co. Ltd., 41, Chowringhee Rd., Calcutta.
Naranglata Metal Works, Near Rly. Stn., Navsari, Gujarat.
Power Alcohol Machinery Corpn. of India Ltd., 7, Chittaranjan Ave., Calcutta.

Stationery Making Machines

Dadiala Engg. Works, 27, DLF, Ind. Area, Najafgarh Rd., New Delhi 110015.

Tube Well Machinery

Ganpali Engg. Manufrs., Ganpali, Coimbatore.
Govt. Ind. Engg. & Workshop, Washermanpet, Madras.
Reliable Water Supply Services of India Ltd., P.O. Box 113, 30 Hazarat Gunj, Lucknow.

Soap Plants

Pennwalt India Ltd., Signal Hill Annexe, Tank Rd., Sewri, Bombay 400033.

Spin Driers

Snow White Engrs., 9937, A. SROH, New Rohtak Rd., New Delhi 110005.

Sugar Machinery

Backau Wolf New India Engg. Works Ltd., Pimpri, Pune 411018.
G. R. Engg. Works Pvt. Ltd., G.R. House, 86, M. Vasanji Rd., Bombay 400059.

Tea Machinery

Heavy Castings Pvt. Ltd., 6/9, Race Course, Coimbatore 611018.
Marshall Sons & Co. India Ltd., 33/1, N. Subash Rd., Calcutta 700001.
Taps & Dies Ltd., P-17, G. Chandra Ave., Calcutta 700013.

Telecommunication Equipment

Indian Telecommunication Equipment Co., 235, Haqiqat Nagar, Delhi 110002.

Tobacco Processing Machinery

John Fowler India Ltd., Marshall's Bldg., S. Vallabhdas Marg, Bombay 400001.

Toiletry Machines

Small Machinery Manufg. Co., 22, R. G. Kar Rd., Shambazar, Calcutta 700004.

Tyre Retreading Machinery

Indian Tyre Retreading Co., 21, A. Najafgarh Rd., Ind. Area, New Delhi 110015.

Varnish Coating Plants

Metworks Methods, C-8, Nand Dham Ind. Estate, Marol, Bombay 400059.
Wellman Incandescent India Ltd., 8, Harrington St., Calcutta 700016.

Winding Machines

Kumudchandra & Co., Examiner Press Bldg., 29, Dalal St., Bombay 400001.

Wire Drawing Machines

Bombay Furnaces Pvt. Ltd., 5, Stadium House, V. Nariman Rd., Bombay 400020.
Novelty Engg. Co., B. Lahiri Lane, Santragachhi, Howrah.
Promain Ltd., D-24, K. Gandhi Marg, New Delhi 110001.
S.E.A. Corpn. India Pvt. Ltd., P-22, Swallow Lane, Calcutta 700001.

Wood Treatment Plants

Ascu Hickson Ltd., 7A, Elgin Rd., Calcutta 700020.

MATERIAL HANDLINGS

CONVEYORS & ELEVATORS

Gujarat

Ahmedabad Victoria Iron Works Co. Pvt. Ltd., Dudheshwar Rd., Ahmedabad 380001.
Anup Engg. Ltd., Ghee Kantawadi, Ahmedabad 380001.
Elecon Engg. Co. Ltd., Vallabh Vidyanagar.
Rolcon Engg. Co. Ltd., Vallabh Vidyanagar.

Maharashtra

Brady Engg. Co. Ltd., Brady House, V. Nariman Rd., Bombay 400001.
BUC Mechanical Equipments Pvt. Ltd., 119, ABC Govt. Ind. Estate, Kandivli, Bombay 400067.
De Smet India Pvt. Ltd., Panchpakhadi, Thana 400601.
Dynacraft Machine Co. Pvt. Ltd., C.D. Barfiwala Marg, Andheri, Bombay 400058.
Garlick & Co. Pvt. Ltd., Haines Rd., Bombay 400011.
Jay Kay Steel Fabricators, Universal Founders Compound, Mograpada, Bombay 400069.
K. T. Steel Ind. Pvt. Ltd., 21, Broach St., Bombay 400009.
La'Mina Pvt. Ltd., 15, Aghadi Ind. Estate, Marol, Bombay 400059.
Mukund Iron & Steel Works Ltd., Kurla, Bombay 400070.
Pioneer Equipment Co., Pvt. Ltd., 139, Medows St., Bombay 400001.
Shaparia Dock & Steel Co. Pvt. Ltd., Sewree Fort Rd., Bombay 400015.
Systems Engg., 63-D, Govt. Ind. Estate, Kandivli, Bombay 400067.
Tak Machinery Ltd., Janmabhoomi Bhavan, Ghoga St., Bombay 400001.
Tata-Robins-Fraser Ltd., 24, Bruce St., Bombay 400001.
Testeels Ltd., 317-21, Dr. D. Naoroji Rd., Bombay 400001.
Todi Ind. Pvt. Ltd., Lower Parel, Bombay 400013.
Western Mechanical Ind. Pvt. Ltd., Bhandup Village Rd., Bombay 400078.
Wipperdrive Engg., 70, Podar Chambers, 109, Parsi Bazar St., Bombay 400001.

Mysore

Associated Cement Companies, Ltd., Shahabad, Gulbarga 585101.
Systems Manufr. Pvt. Ltd., 320, 7th Main Rd., Rajmahal Vilas Extn., Bangalore 560006.

Orissa

Utkal Machinery Ltd., Rourkela, Orissa 769001.

Tamil Nadu

Conveyors (India), Ind. Estate, Madras 600058.

Uttar Pradesh

Cawnpore Dyeing and Cloth Printing Co. Ltd., Civil Lines, Kanpur 208001.
Modi Ind. Ltd., Modinagar.

West Bengal

Burn and Co. Ltd., Howrah Iron Works, Howrah 711101.
Garden Reach Workshop Ltd., Garden Reach Rd., Calcutta 700024.
Jessop & Co., Ltd., 63, N. Subash Rd., Calcutta 700001.
Lynx Machinery Ltd., 23-A, N. Subash Rd., Calcutta 700001.
Marshall Sons & Co., (India) Ltd., 33/1, N. Subash Rd., Calcutta 700001.
Mechanical Handling Equipment Pvt. Ltd., 33, Chittaranjan Ave., Calcutta 700013.
The New India Conveyor Co., 4, Chandni Chowk St., Calcutta 700013.
Parry & Co., Mercantile Bldg., Lal Bazar, Calcutta 700001.
Vinar Ltd., 2/A, Shakespeare Sarani, Calcutta 700016.

FORK LIFT TRUCKS

Andhra Pradesh

Krishi Engines Pvt. Ltd., Sanatnagar, Hyderabad 500018.

Bihar

Tata Engg. & Locomotive Co., Ltd., Jamshedpur 831001.

Maharashtra

Brady Engg. Co., Ltd., Brady House, V. Nariman Rd., Bombay 400001.
Godrej & Boyce Manufg. Co. Pvt. Ltd., Godrej Bhavan, Home St., Bombay 400001.
Gujarat Ind. Trucks Ltd., India House, Opp. G.P.O., Bombay 400001.
Hoist-O-Mech Ltd., Industry Manor, Opp. Bengal Chemicals, Bombay 400025.
Josts Engg. Co. Ltd., Great Social Bldg., Sir P. Mehta Rd., Bombay 400001.
Standard Batteries Ltd., Vakola, Bombay 400055.

West Bengal

Carter Pooler & Co. Ltd., 10, Clive Row, Calcutta 700001.
Electric Construction & Equipment Co. Ltd., P.O. Parbangla, Batanagar, 24-Parganas Dist.
Kilburn & Co., Ltd., 2, Fairlie Place, Calcutta 700001.

PULLEYS, CRANES, HOISTS, ETC.

Delhi

Amta Ind. (India), 17, DLF Ind. Area, New Delhi 110015.
Atlas Pulley Manufg. Co., 5392, Shradhanand Marg, Delhi 110006.
B. K. Khanna & Co. Pvt. Ltd., 14-F, Central Circle, New Delhi 110001.
Benlaks (India) House, Shradhanand Marg, Delhi 110006.
Bhai & Bhai Associates, 4-23-B, Asafali Rd., New Delhi 110001.
Dass Hitachi Ltd., 21-A, Janpath, New Delhi 110001.
Indudyog Co. Pvt. Ltd., 40, Ind. Estate, Okhla, New Delhi 110020.
Industrial Cranes & Fabricators Pvt. Ltd., 22-F, Gandhi Rd., New Delhi 110001.
K. G. Khosla & Co. Pvt. Ltd., 1, D. Gupta Rd., New Delhi 110001.
Pulling & Lifting Machines Pvt. Ltd., 12, Sriram Rd., Civil Lines, Delhi 110006.
Shakti Pulley Manufg. Co., 5391, Light Bldg., Shradhanand Marg, Delhi 110006.

Gujarat

Elicon Engg. Co. Ltd., Vallabh Vidya Nagar.

Kerala

Kerala Electrical and Allied Engg. Co. Pvt. Ltd., Kundara, Quilon 691001.

Madhya Pradesh

Jain & Rai, P.O. Bhilai Steel Plant, Bhilai.

Maharashtra

Ashton Green & Co., 118, Sir Vithaldas Chambers, 16, Apollo St., Bombay 400001.

B. R. Hermann & Mohatta (I.) Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.

BUC Mechanical Equipments Pvt. Ltd., 119 ABC, Govt. Ind. Estate, Kandivli West, Bombay 400067.

Dynacraft Machine Co. Ltd., Juhu Lane, Bombay 400058.

Eastern Machinery & Trdg. Co., Wilson Rd., B. Estate, Bombay 400001.

Esoofali Esmailji Karachiwala & Co., 43/45, Bhandari St., Mandvi, Bombay 400003.

Hercules Hoists Ltd., Minerva Ind. Estate, Opp. Ralliwolf, L.B. Shastri Marg, Mulund, Bombay 400080.

Indmag Pvt. Ltd., 17, Arthur Bunder Rd. Bombay 400005.

Jacks Engg. Works, 45/46, Podar Chambers, Parsee Bazar St., Bombay 400001.

K. T. Steel Ind. Pvt. Ltd., 21, Bharuch St., Bombay 400009.

Khandelwal Udyog Ltd., Kurla-Kirol Rd., Bombay 400086.

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Larsen & Toubro Ltd., L & T House, Dougall Rd., Bombay 400001.

New Standard Engg. Co. Ltd., N.S.E. Estate, Goregaon (East), Bombay 400063.

Nigo's Corpn, Patel Comp., 48B, Lamington Rd., Near Nair Hospital, Bombay 400008.

R. N. Suresh Tools Corpn., 53, Commercial Chambers, Masjid Bunder Rd., Bombay 400003.

Richardson & Cruddas Ltd., Byculla Iron Works, Bombay 400008.

Roberts, McLean & Co. Ltd., Ilaco House, Sir P. Mehta Rd., Bombay 400001.

Shah Patel & Co., 111, Nagdevi St., Bombay 400003.

Srikesh Engg., 11, Noble Chambers, Gogha St., Bombay 400001.

Standard Materials Agencies, 45/46, Podar Chambers, Parsee Bazar St., Bombay 400001.

Tak Machinery Ltd., Janmabhoomi Bhavan, Ghoga St., Bombay 400001.

Western Mechanical Ind. Pvt. Ltd., Opp. Bengal Chemicals, Bombay 400025.

Westerwork Engrs. Pvt. Ltd., 15, Bhandup Village Rd., Bombay 400078.

Mysore

Mantons (Bangalore) Pvt. Ltd., Site No. 1, Koramangala Ind. Layout, Hosur Rd., Bangalore 560034.

Steel Construction Co. Pvt. Ltd., 41, Hardinge Rd., Bangalore 560001.

Tamil Nadu

Chitram & Co. Pvt. Ltd., Main Rd., Royapuram, Madras 600013.

Southern Structurals Ltd., 14, Boag Rd., Madras 600001.

West Bengal

A. Stock & Co. Ltd., 8, Goragacha Rd., Calcutta 700007.

Arthur Bagree & Co. (I), 40, Strand Rd., Calcutta 700001.

Asian Marketing Co. Ltd., 38 N. Subash Rd., Calcutta 700001.

Braithwaite & Co. (I) Ltd., Angus, Hooghly Distt.

Brittania Engg. Co. Ltd., 3, N. Subash Rd., Calcutta 700001.

Burn & Co., Ltd., 12, Mission Row, Calcutta 700001.

Coles Cranes of India Ltd., 517, B.T. Rd., 24-Paraganas Dist.

Escal India Pvt. Ltd., P-34, C.I.T. Rd., Calcutta 700014.

Garden Reach Workshops Ltd., 43/46, Garden Reach Rd., Calcutta 700024.

Hindustan Motors Ltd., Uttarpara, Hooghly Dist.

J.K. Steel & Ind. Ltd., 2, Mangoe Lane, Calcutta 700011.

Jessop & Co. Ltd., 63, N. Subash Rd., Calcutta 700001.

Kumardhubi Engg. Works, Chartered Bank Bldg., Calcutta 700001.

Lynx Machinery Ltd., 10, Clive Row, Calcutta 700001.

New Marine Mart, 4, Raja Woodmunt St., Calcutta 700001.

Usha Telehoist Ltd., 14, Princep St., Calcutta 700013.

TRAILERS & TROLLIES

Andhra Pradesh

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

Assam

Steel Works Ltd., Commercial Bldg., Tezpur, 784001.

Bihar

Linkers Pvt. Ltd., Jamal Rd., Patna 800001.

Delhi

Delhi Engg. Works Pvt. Ltd., G.T. Rd., Azadpur, Delhi 110033.

Ghaziabad Engg. Co. Pvt. Ltd., 42, Janpath, New Delhi 110001.

Indudyog Co. Pvt. Ltd., 40, Okhla Ind. Estate, New Delhi 110020.

New India Motors Pvt. Ltd., Scindia House, New Delhi 110001.

Maharashtra

Esoofali Esmailji Karachiwala & Co., 43/45, Bhandari St., Mandvi, Bombay 400003.

Kanara Engg. Co. Pvt. Ltd., Mount Rd., Bombay 110010.

Mahindra & Mahindra Ltd., Gateway Bldg., Apollo Bunder, Bombay 400001.

Marian Engg. Co., 710, Horniman Circle, Bombay 400001.

Ruby Industries, 75, Dr. A. Besant Rd., Bombay 400018.

Mysore

Metalitek Industries, A-68, Ind. Estate, Bangalore 560044.

Tamil Nadu

Addison & Co. Ltd., 153, Mount Rd., Madras 600002.

Simpson & Co. Ltd., 202-Mount Rd., Madras 600002.

Sreevatsa Engg. & Trdg. Co., 3/79, Sembudoss St., Madras 600001.

Uttar Pradesh

Light Carts Pvt. Ltd., Cariappa St., Meerut 250001.

West Bengal

Alexander (Pvt.) Ltd., 26, Strand Rd., Calcutta 700001.

Amiya Corpn., 19, British Indian St., Calcutta 700001.

Associated Aesby Ind. Pvt. Ltd., 22, Strand Rd., Calcutta 700001.

Balmer Lawrie & Co. Pvt. Ltd., 21, N. Subash Rd., Calcutta 700001.

Bengal Hardware Co., 70, N. Subash Rd., Calcutta 700001.

C. Comens & Sons Ltd., 103/3, Diamond Harbour Rd., Calcutta 700001.

Chopra Motors, 139, Regent Park, Calcutta 700040.

International Trailers, 11, Bediadanga Rd., Calcutta 710039.

Mechanical Engg. Co. Pvt. Ltd., 50/1, Tagore Rd., Calcutta 700015.

MEDICAL EQUIPMENT

BABY PRODUCTS

Delhi

Helix Latex Ind., B-28, G. T. Karnal Rd., Ind. Area, Delhi 110033.

Maharashtra

Bombay Latex & Dispersions Pvt. Ltd., 83-C, A. Besant Rd., Worli, Bombay 400018.

Johnson & Johnson Ltd., Spencer's Bldg., 30 Forjett St., Bombay 400036.

HOSPITAL EQUIPMENT

Delhi

Allied Surgical & Dressings, Bhagirath Palace, Chandni Chowk, Delhi 110006.

Apothecaries' Sundries Manufg. Co., P.O. Box 1, New Delhi 110001.

Eastern Trdg. Corpn., 849, Lajpatrai Market, Chandni Chowk, Delhi 110006.

Ocean Surgical Co., 51/2, D. B. Gupta Rd., Karol Bagh, New Delhi 110005.

Phillips India Ltd., 68, Najafgarh Rd., New Delhi 110015.

Rita Rubber and Surgical Works, Bhagirath Palace, Delhi 110006.

Swastik Thermometer Co., 41B, Katra Maidgran, Khari Baoli, New Delhi 110006.

Gujarat

Shah Medical and Surgical Co. Ltd., Ajwa Rd., Vadodara 390001.

Surgical Equipment Manufg Co., 1 B. Kalpana Bhoomi Estate, Opp. Rustom Mills, Dhudeshwar Rd., Ahmedabad 380001.

Maharashtra

Dial Rubber Works, Sonawala Cross Rd., Goregaon East, Bombay 400063.

Industrial Electronics and Allied Products, 1423, New Shukrawar Peth, Pune 411002.

Johnson & Johnson Ltd., Spencer's Bldg., 30, Forjett St., Bombay 400036.

M. Shah & Co., Kanji Mansion, 311, S. Patel Rd., Bombay 400004.

Macphil & Co. Pvt. Ltd., B-3, Wagle Estate, Panchpakhadi, Thana 400604.

MSCO Pvt. Ltd., 301, Dr. E. Moses Rd., Worli Naka, Bombay 400018.

Sunshine Surgical Co. Pvt. Ltd., 24, Baroda St., Bombay 400009.

Mysore

Chamundi Metal Ind., 80, Rajaji Nagar Ind. Suburb, Bangalore 560022.

Tamil Nadu

Tablets Ltd., 264 Thambu Chetty St., Madras 600001.

HOSPITAL FURNITURE

Delhi

Capital Surgical Co. Pvt. Ltd., 7-B, N. Subash Marg, Daryaganj, Delhi 110006.

Maharashtra

Hitra Equipments, Khambata Lane, Opp. Victoria Garden P. O., Bombay 400027.

Tamil Nadu

Pikays Medico Surgicals, 199, Mount Rd., Madras 600002.

Medical Equipment Co., Jammi Bldg., Madras 600004.

West Bengal

H. Mukerji & Bannerjee Surgical Pvt. Ltd., 39/1, College St., Calcutta 700012.

ORTHOPAEDIC EQUIPMENT

Delhi

India Medico Instruments, 14, Angoori Bagh Market, Delhi 110006.

International Surgical Works Pvt. Ltd., 7 UA/3, Veena Niwas, Jawahar Nagar, Delhi 110007.

West Bengal

H. Mukerji & Bannerjee Surgical Pvt. Ltd., 39/1, College St., Calcutta 700012.

PHYSIOTHERAPY EQUIPMENT

Maharashtra

Electro Medical Apparatus Co., 3, Tandel St., South, Dongri, Bombay 400009.

Hitra Equipments, Khambata Lane, Opp. Victoria Garden P.O., Bombay 400027.

Mysore

Kamal Industries, 2-F, M. Gandhi Rd., Bangalore 560001.

SURGICAL DRESSINGS

Delhi

Allied Surgical & Dressings, Bhagirath Palace, Chandni Chowk, Delhi 110006.

Eagle Surgical Dressing Manufg. Co., 202, Lajpatrai Market, Delhi 110006.

Goa

Leukoplast (India) Pvt. Ltd., Rua de Curem, Panaji 403001.

Maharashtra

Diamond Surgical Dressing Works, 381, S. Guruji Marg, Bombay 400011.

Johnson & Johnson Ltd., Spencers Bldg., 30, Forjett St., Bombay 400036.

West Bengal

Jayer & Co., 12-B, N. Subash Rd., Calcutta 700001.

SURGICAL INSTRUMENTS

Andhra Pradesh

Elico Pvt. Ltd., B-17 Ind. Estate, Sanatnagar, Hyderabad 500018.

Jyothi Industries, C-31 Ind. Estate, Sanatnagar, Hyderabad 500018.

Delhi

Allied Surgical & Dressings, Bhagirath Palace, Chandni Chowk, Delhi 110006.

Capital Surgical Co. Pvt. Ltd., 7-B, N. Subash Marg, Daryaganj, Delhi 110006.

Evershine Surgical Co., Mahalaxmi Market, Bhagirath Palace, Delhi 110006.

Gujarat

Shah Medical & Surgical Co. Ltd., Ajwa Rd., Vadodara 390001.

Mysore

British Physical Labs. India Pvt. Ltd., 28, K. Hanumanthiah Rd., Bangalore 560027.

Paxal Corpn., 13, Sri Krishnarajendran Rd., Bangalore 560002.

The South India Surgical Co., 71/1 & 2 A. Sriniwasachar St., Bangalore 560002.

Tamil Nadu

Medical Equipments Co., Jammi Bldg., Madras 600004.

Pikays Medico Surgicals, 199 Mount Rd., Madras 600002.

The South India Surgical Co., 196 Mount Rd., Madras 600002.

West Bengal

Calcutta Metallic Co., 11, H. Mukerjee Rd., Calcutta 700025.

H. Mukerji & Bannerjee Surgical Pvt. Ltd., 39/1, College St., Calcutta 700012.

X-RAY MACHINES

Delhi

Escorts Ltd., 11, Scindia House, Connaught Circus, New Delhi 110001.

Indian Technological Products, Technological House, 21, Babar Rd., New Delhi 110001.

METALS, NON-FERROUS

Bihar

Express Cables Pvt., Ltd. 'Uday Bhavan', Fraser Rd., Patna 800001.

Delhi

Delton Cable Ind. Pvt. Ltd., Delton House, Bharat Ram Rd., 24, Darya Ganj, Delhi 110006.

Indian Aluminium Cables Ltd., P. B. 3016, New Delhi 110003.

Jindal Aluminium Pvt. Ltd., 1/6B, Asafali Rd., New Delhi 110001.

Skytons Electricals (India), 2655, Sadar Thana Rd., Delhi 110006.

Gujarat

Baroda Rolling Works, Channi Rd., Vadodara 390001.

Bombay Conductors & Electricals Pvt. Ltd., Maninagar, Ahmedabad 380008.

Mahendra Electricals Ltd., Kamla Mission Rd., Nadiad 387001.

Haryana

Swastika Metal Works, Jagadhri.

Kerala

Aluminium Ind. Ltd., Kundara.

Cominco Binani Zinc Ltd., Binanipuram, P.O. Udyogmandal.

Madhya Pradesh

Universal Cables Ltd., P.O. Birla Colony, Satna 485001.

Maharashtra

Ahmedabad Manufg. & Calico Printing Co. Ltd., Calico Mills, Chemicals & Plastics Division, Anik-Chembur, Bombay 400074.

Ashok Metal Ind., 6, Sewree Cross Rd., Bombay 400015.

Asian Cables Corpn. Ltd., Nirmal, 241/242, Nariman Point, Bombay 400020.

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   Manufacturers of : Lamp Caps.
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Bralco Metal Ind. Pvt. Ltd., Gupta Mills Estate, Darukhana, Reay Rd., Bombay 400010.

Cable Corpn. of India Ltd., Laxmi Bldg., 6, Ballard Rd., Bombay 400001.

Cominco Binani Zinc Ltd., 12/18, V. Patel Rd., Bombay 400004.

Deccan Metal Works, 553, Rasta Peth, Pune 411011.

Devidayal Cable Ind. Ltd., Gupta Mills Estate, Darukhana, Reay Rd., Bombay 400010.

Devidayal Rolling & Refineries Pvt. Ltd., Gupta Mills Estate, Darukhana, Reay Rd., Bombay 400010.

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Indian Smelting & Refining Co. Ltd., L. B. Shastri Marg, Bhandup, Bombay 400078.

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Jayant Metal Manufg. Co., 16, Sayani Rd., Bombay 400028.

J. B. Metal Ind., Saki Vihar Rd., Bombay 400072.

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Tamil Nadu

Indian Metal & Metallurgical Corpn., 498, Mint St., Madras 600003.

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Madras Electrical Conductors Pvt. Ltd., 37, Arcot Rd., Madras 600026.

Mysore Premier Metal Factory, 127, Mint St., Madras 600001.

Sargam Metals, 122, Nandambakkam, Madras 600016.

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Aluminium Manufg. Co. Ltd., 2, Jessore Rd., Dum Dum, Calcutta 700028.

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Binani Metal Works Ltd., 38, Strand Rd., Calcutta 700001.

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Everlite Insulating Ind. Pvt. Ltd., 137, B. Roy Road West, Calcutta 700008.

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Lal Trades & Agencies Pvt. Ltd., 7, Waterloo St., Calcutta 700001.

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Bharat Engg. Stores, 113, Nagdevi St., Bombay 400003.

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Raj Kamal Traders, 23, Hamam St., Bombay 400001.
S. J. Patel & Co., 153/3, Armenian St., Calcutta 700001.
Sanatan Iron & Steel Chain Manufg. Co. Pvt. Ltd., 29 B. Bentink St., Calcutta 700001.
T. I. Diamond Chain Ltd., Ambattur, Madras 600053.

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Sparkler Eastern Pvt. Ltd., 35, Chittaranjan Ave., Calcutta 700012.

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Flash Light India Pvt. Ltd., 135, Princep St., Calcutta 700013.

Geep Flashlights India Ltd., 28, South Rd., Allahabad 211001.

Sen Bros. Pvt. Ltd., 3, Amartolla St., Calcutta 700001.

Union Carbide India Ltd., 1-3, Brabourne Rd., Calcutta 700001.

United Flashlight Ind. Pvt. Ltd., 14/2, Old China Bazar St., Calcutta 700001.

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Asiatic Oxygen Ltd., Old Madras Rd., Avalahalli, Bangalore 560040.

Bombay Gas Co. Ltd., Empire House, 214, Dr. D. Naoroji Rd., Bombay 400001.

Indian Oxygen Ltd., Oxygen House, P-34, Taratalla Rd., Calcutta 700053.

Hindustan Gas & Ind. Ltd., 10, Camac St., Calcutta 700017.

Hindustan Oxygen & Acetylene Co., 28, New Rohtak Rd., New Delhi.

Gas Cylinders

Hyderabad Allwyn Metal Works Ltd., Sanat Nagar, Hyderabad 500018.

Gramophone Records

Gramophone Co. of India Pvt. Ltd., 33, Jessore Rd., Dum Dum, Calcutta 700028.

Hindustan Musical Products Ltd., 6/1, A. Dutt Lane, Calcutta 700012.

Polydor of India Ltd., Ashok Nagar Rd., Bombay 400067.

Hardboards

Wood Craft Products Ltd., 9/1, R. N. Mukerjee Rd., Calcutta 700001.

Human Hair Products

East India Trdg. Co., 2, Church Lane, Calcutta 700001.

Hosiery Goods

Pioneer Knitting Mills Ltd., Pioneer Bldg., 6/1A, P. Soor Lane, Calcutta 700002.

Incinerators

Loop Engg. Consultants Pvt. Ltd., Sunder Mahal, N. Subash Rd., Bombay 400020.

Imitation Jewellery

Goldfield Mercantile Co., 24, Chakala Rd., Andheri East, Bombay 400069.

Sharda Manufrs., 32, 3rd Bhoiwada, Bhuleshwar, Bombay 400002.

Irrigation Systems

Dattatraya Ind. Pvt. Ltd., 691A, Pune Satara Rd., Pune 411009.

Premier Irrigation Equipment Pvt. Ltd., 17/1C, Alipore Rd., Calcutta 700027.

Jute Goods

Gungadhar Bannerjee & Co. Pvt. Ltd., Bakulia House, Kidderpore, Calcutta 700023.

General Industrial Society Ltd., 8, India Exchange Place, Calcutta 700001.

Alliance Mills (Lessees) Pvt. Ltd., 18, N. Subash Rd., Calcutta 700001.

Birla Jute Manufg. Co. Ltd., Birlapur, 24, Parganas, W. Bengal.

Kitchen Aids

Ormerods India Pvt. Ltd., Bank of Baroda Bldg., Apollo St., Bombay 400001.

Ladders

Eshak Dada Bamboowala, 72, I. M. Merchant Rd., Khadak, Bombay 400009.

Laminated Products

Bengal Engg. Co. Pvt. Ltd., 12, Dalhousie Sq. East, Calcutta 700001.

Guardian Plasticote Ltd., 12, Ho Chi Minh Sarani, Calcutta 700016.

Indecor Laminates Pvt. Ltd., B-45, Ind. Estate, Sanatnagar, Hyderabad 500018.

Magnets

Bengal Engg. Co. Pvt. Ltd., 12, Dalhousie Sq. East, Calcutta 700001.

Permanent Magnets Ltd., 20, Old Custom House Rd., Bombay 400001.

Marine Crafts

Aero Marine Ind., 19, Ganpati Nagar, Madras 600018.
Andrew Yule & Co. Pvt. Ltd., 32, Nicol Rd., Ballard Estate, Bombay 400001.
Chowgule & Co. Pvt. Ltd., Chowgule House, Marmugao Harbour, Goa.

Metallised Materials

Chemicoat Ltd. Kalali Rd., P. O. Atladra, Vadodara. Dist.

Metallo Plastic Yarn

Rexor India Ltd., 33, Chittaranjan Ave., Calcutta 700012.

Mosquito Nettings

Rajiv Nettings, Rohit Mills Premises, Ahmedabad 380008.
Kastur B. Ind. Pvt. Ltd., Forjett St. Cross Lane, Gowalia Tank, Bombay 400007.

Musical Instruments

Dwarkin & Son Pvt. Ltd., 8/2, Esplanade East, Calcutta 700001.
East India Trdg. Co., 2, Church Lane, Calcutta 700001.

Needles

Needle Ind. India Ltd., P. O. Ketti, Nilgiris.

Patterns—Wooden & Metal

Kulkarni Patterns Pvt. Ltd., 22/6, Hadapsar Ind. Estate, Pune 411013.

Photo Goods

Agfa-Geveart India Ltd., 41, New Marine Lines, Bombay 400020.
Camera Works Pvt. Ltd., c/o Chowgule & Co. Hind Pvt. Ltd., India House, opp. G.P.O. Fort St., Bombay 400001.
Chemical Moulding Manufg. Co. Pvt. Ltd., Shapoor Baug, Marol, M. Vassanji Rd., Bombay 400059.
Ensign India Pvt. Ltd., P. O. Box 2459, Calcutta 700001.
Great India Trdg. Co., 8, Beaumon Chambers, 27/33, N. Master Rd., Bombay 400001.
Kesho Ram & Sons India Pvt. Ltd., opp. Dariba, Chandni Chowk, Delhi 110006.
Kodak Ltd., Kodak House, Dr. D. Naoroji Rd., Bombay 400001.
Patel India Pvt. Ltd., 190, Dr. D. Naoroji Rd., Bombay 400001.

Printing Ink

Bharat Varnish Manufg. Co., L. B. Shastri Marg, Ghatkopar, Bombay 400086.
Coates of India Ltd., Transport Depot Rd., Calcutta 700027.
Ganges Printing Ink Factory Ltd., Gillanders House, Block F/3, 8 N. Subash Rd., Calcutta 700001.
Hooghly Ink Co. Bombay Ltd., 7, Kumpta St., Bombay 400001.
J. B. A. Printing Inks Pvt. Ltd., A-42, Rewari Line Ind. Area, Mayapuri, New Delhi 110027.

Printing Press Requisites

Indian Leather Cloth Ind. Pvt. Ltd., Bagri Niwas, 53, Khattarali Lane, Bombay 400002.
Print & Paper Sales Pvt. Ltd., 7/7A, Waterloo St., Calcutta 700001.
Relief Roller Casting Co., 4, G. C. Bose Rd., Calcutta 700014.
Rudra & Co. Pvt. Ltd., 32, M. Mitter Lane, Calcutta 700006.
Scientific Printers Materials Manufg. Co. Ltd., Mirzapur Rd., Ahmedabad 380001.
Wilson & Co. Pvt. Ltd., B-15, Royal Optical Ind. Estate, 5B, Naigaum Cross Rd., Wadala, Bombay 400031.

Public Address Systems

Allgemein Sana Ind., 1903, Chandni Chowk, Delhi 110006.
General Radio Corpn., 2/2, Jhandelwalan Ext. Scheme, New Delhi 110055.
Motwane Pvt. Ltd., 127, M. Gandhi Rd., Bombay 400001.
Singh Radio Co. India Pvt. Ltd., 21, Daryagunj, Delhi 110006.

Reclaimed Rubber

Indian Rubber Regenerating Co. Ltd., Plot No. F-2, Wagle Ind. Estate, Thana 400604.

Ropes

Ganges Rope Co. Ltd., 2, Fairlie Place, Calcutta 700001.
Gungadhar Bannerji & Co. Pvt. Ltd., Bakulia House, Kidderpore, Calcutta 700023.
Shalimar Rope Works Ltd., 14, N. Subash Rd., Calcutta 700001.

Safety Appliances

Adigee Ind., 59/4, Garfa Main Rd., Jadavpur, Calcutta 700032.
Bengal Engg. Co. Pvt. Ltd., 12, Dalhousie Sq. East, Calcutta 700001.
Fida Traders, 97, Dhaboo St., Bombay 400003.
Impex Engg. & Equipment Co., 138, N. Dhuru St., Bombay 400003.
Pierce Leslie & Co., 105, Apollo St., Bombay 400001.

Safety Lanterns & Stoves

Bangalore Chemical & Manufg. Co. Pvt. Ltd., Ind. Estate, Rajajinagar, Bangalore 560044.
India Ind. Works Pvt. Ltd., 19, British Indian St., Calcutta 700001.
J. K. Dey & Sons, 13, Old China Bazar St., Calcutta 700001.
Metal Stamping Co., Plot A35, Road 10, Wagle Ind. Estate, Thana 400601.

Safety Matches

Western India Match Co. Ltd., Indian Mercantile Chambers, Nicol Rd., Ballard Estate, Bombay 400001.

Silos

Shirke-Prive-Reimbert Silos Pvt. Ltd., 72-76, Mundhwa, Pune 411001.

Sirens & Hooters

Calcutta Fan Works Pvt. Ltd., 30, Chowringhee Rd., Calcutta 700016.
G. R. Electrical Ind., 110, Ripon St., Calcutta 700016.
Hindustan Engrs., 501A, Commerce House, New Delhi 110015.
Lightcraft Corpn., Evergreen Ind. Estate, off Haines Rd., Mahalaxmi, Bombay 400011.
Vijay Lakshmi Electric Co., Sitaram Bldg., 37, Dr. D. Naoroji Rd., Bombay 400001.

Sound Equipment

Philips India Ltd., 68, Najafgarh Rd., New Delhi 110015.

Sonodyne Corpn., 7, S. Roy Rd., Calcutta 700034.

Sprayers

Triniti Metal Ind., A-5, Coop. Ind. Estates Ltd., Balanager, Hyderabad 500037.

Sports Goods

United Sports Traders Delhi Pvt. Ltd., 4162, Behind Indra Market, Subzi Mandi, Delhi 110007.

Tapes & Webbings

Fabrika Polyarn, Junction Tata Agra Rd., Bhandup, Bombay 400078.

Polyfabrics, 6, Khetani Ind. Estate, Kurla, Bombay 400070.

Todi Ind. Pvt. Ltd. & Associated Concerns, Todi Estates, Lower Parel, Bombay 400013.

Recording Tapes

Tarzian India Pvt. Ltd., 23A, Najafgarh Rd., New Delhi 110015.

Vimal Enterprises Pvt. Ltd., Main Rd., Umbergaon, Gujarat.

Tape Recorders

Bhatty Electronics Corpn., 98, Ind. Estate, Kandivli West, Bombay 400067.

General Radio Corpn., 2/2, Jhandewalan Ind. Scheme, New Delhi 110055.

Jai Electronic Ind. Pvt. Ltd., 74, Ind. Area, Satpur, Nasik 422007.

Murphy India Ltd., Dr. Shirodkar Rd., Off Hospital Ave., Parel, Bombay 400012.

Parry Engg. & Electronics Pvt. Ltd., Opp. Jain Temple, M. Gandhi Rd., Ahmedabad 380001.

Singh Radio Co. India Pvt. Ltd., 21, Darya Gunj, Delhi 110006.

Telefunken India Ltd., G-4, N. D. S. E. Part 1, New Delhi 110049.

Western Electroniks Pvt. Ltd., 244, Okhla Ind. Estate, New Delhi 110020.

Telecommunication Equipment

Ericsson India Ltd., 15, Community Centre, Suraj Parbat, New Delhi 110024.

Metro Ind. Works, 94, B. Ghosh Rd., Calcutta 700040.

Time Clocks & Watches

Chronomatic Ind. Pvt. Ltd., Prakash Mills Comp., Off Globe Mills Passage, Bombay 400013.

H. E. S. Ltd., Jogeshwari Estate, S. Vivekanand Rd., Bombay 400060.

Hindustan Machine Tools Ltd., Jallahalli, Bangalore 560013.

Indo-French Time Ind. Ltd., 12, Udyog Nagar, S. Vivekanand Rd., Goregaon West, Bombay 400062.

Tiwac Ind. Pvt. Ltd., Hathikola, Dharwar 580007.

Tinsel Powder

Progressive Ind., 36, Sutar Chawl, Bombay 400002.

Toys

Govel Plastics Pvt. Ltd., 5/G, Veerabadrier St., Nungabakkam, Madras 600034.

Metal Stamping Co., Plot No. A35, Road No. 10, Wagle Ind. Estate, Thana 400604.

Plastifoams Pvt. Ltd., 4, Meher Bldg., Chowpatty, Bombay 400007.

Raja Mechanical Co. Pvt. Ltd., 30, Deputy Gunj, Delhi 110006.

Vinmold Pvt. Ltd., 11/A, T. K. Ind. Estate, A. Donde Marg (Cross Lane), Sewri, Bombay 400015.

Tubewell Accessories

Calcutta Filter Manufg. Co., 62/1A, N. Subash Rd., Calcutta 700001.

Delhi Engg. Works Pvt. Ltd., 454, Azadpur, Delhi 110033.

Hyderabad Alloy Foundries Pvt. Ltd., 5-3-960/1, J. Nehru Rd., Hyderabad 500001.

Kadakia Trdg. Corpn., 3, Bibijan St., Bombay 400003.

Reliable Water Supply Service of India Pvt. Ltd., 1/11, E. Patel Nagar, New Delhi 110008.

Wellwater Services Pvt. Ltd., P. K. Law Bldg., 63, Radha Bazar St., Calcutta 700001.

Typewriters

Godrej & Boyce Manufg. Co. Pvt. Ltd., Lalbaug, Bombay 400012.

J. K. Business Machines Ltd., 2, Mango Lane, Calcutta 700001.

Rai & Sons Pvt. Ltd., 9-19, Connaught Place, New Delhi 110001.

Loyala Corpn. Madras Pvt. Ltd., 1-55, Mount Rd., Madras 600001.

Remington Rand of India Ltd., Remington House, 3, Council House St., Calcutta 700001.

Umbrella Fittings

Calcutta Crucible Works, 52, K. Mitra Lane, Salkia Howrah 711101.

Ebrahim Currim & Sons, 251, N. Subash Rd., Madras 600001.

M. L. Mansukhani & Co. Pvt. Ltd., 69, S. Gandhi Marg, Bombay 400002.

Vel Light Engg. Ind., No. 1, 3rd Cross Rd., Lalbaug Rd., Bangalore 560027.

Vacuum Flask

Ajanta Vacuum Flask Manufg. Co., 9 Ezra St., Calcutta 700001.

Eagle Vacuum Bottle Manufg. Co. Pvt. Ltd., 144, S. Devji St., Bombay 400003.

Hindustan Vacuum Glass Ltd., New Ind. Township, Faridabad, Haryana 121001.

Shimada Glass & Flask Factory Pvt. Ltd., 55, Konnur High Rd., Madras 600023.

Victory Flask Co. Pvt. Ltd., Kachwadi, Govandi, Bombay 400071.

Venetian Blinds

B. S. Mohindar & Co., 45-1, August Kranti Marg, Bombay 400036.

Chaudhary Bros., 497, S. V. Patel Rd., Bombay 400004.

J. K. Engg. Supplies, 3, Loha Bhavan, P. D'Mello Rd., Bombay 400009.

Oriental Electric & Engg. Co., 1, Old Court House Corner, Calcutta 700001.

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Capstan Meters India Ltd., Tonk Rd., Jaipur 302004.

Rajkamal Water Meter Manufg. Co., 75, N. Subash Rd., Calcutta 700001.

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Wax Products

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Nylo Plast Ind. Pvt. Ltd., 254, Dr. A. Besant Rd., Bombay 400018.

Zip Ind. Pvt. Ltd., 119, Mint St., Madras 600001.

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Bel Graphic Recording Charts Ltd., S-297, C. S. Track Rd., Kalina, Bombay 400029.

West Bengal

Business Forms Ltd., 6A, Middleton St., Calcutta 700016.

CALCULATING MACHINES

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NSH Business Machines, 1008 Akash Deep, Barakhamba Rd., New Delhi 110001.

Maharashtra

Bradma of India Ltd., Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.

Tamil Nadu

Facit Asia Ltd., Perungudi, Madras 600041.

Indian Manufrs. (Madras) Pvt. Ltd., 1-155 Mount Rd., Madras 600002.

Rayala Corpn. Pvt. Ltd., 25A Mount Rd., Madras 600032.

West Bengal

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J. K. Business Machines Ltd., 2 Mangoe Lane, Calcutta 700001.

Remington Rand of India Ltd., 3 Council House St., Calcutta 700001.

Singer Sewing Machine Co., 29, Waterloo St., Calcutta 700001.

COMPUTERS

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I.B.M. World Trade Corpn., Nehru House, 4, B. Shah Zafar Marg, New Delhi 110001.

Maharashtra

International Computer Indian Manufrs. Ltd., Ahmednagar Rd., Pune 411014.

Tamil Nadu

The K.C.P. Ltd., 38, Mount Rd., Madras 600006.

DRAWING OFFICE EQUIPMENT

West Bengal

Das Reprographics Pvt. Ltd., Taratolla Rd., Calcutta 700053.

DUPLICATING MACHINES

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Shourie Duplicators Pvt. Ltd., Ind. Area, Najafgarh Rd., New Delhi 110015.

Maharashtra

Apex Enterprises, 79, Govt. Ind. Estate, Kandivli West, Bombay 400067.

Apex Industries, Mohatta House, Palton Rd., Bombay 400001.

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Recordex Business Systems, 8/1, E. Patel Nagar, New Delhi 110008.
Roneo Vickers India Ltd:, 184, Jor Bagh, New Delhi 110003.

Madhya Pradesh

Methodex Business Systems, 35A, Fort Ind. Estate, Indore 452004.

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Instruments and Apparatus Pvt. Ltd., 193, Mount Rd., Madras 600002.

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Delhi

The Bharat Carbon and Ribbon Manufg. Co. Ltd., N-75, Connaught Circus, New Delhi 110001.
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Cartybon Pvt. Ltd., Chowgule House, Marmugao Harbour, 403601.

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Massawi Ind., 589/A, Nawa Darwaja Rd., Ahmedabad 380001.

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1. Premier Paper Mills Ltd., 120, Dinshaw Wacha Road, Bombay 20 BR. *Phone:* 295341.
2. Printpak Machinery Ltd., 13-14, Ajmeri Gate Extension, New Delhi. *Phone:* 273843.
   Plant: Link Road, Faridabad City (Haryana). *Phones:* 2289 & 3049.
3. PPL Plastics Limited, 120, Dinshaw Wacha Road, Bombay 20 BR. *Phone:* 295341.

Paper Products Ltd., Vaswani Mansions, 120, D. Vaccha Rd., Bombay 400020.

Polyweave, 32, Kalabhavan, 3, Mathew Rd., Bombay 400004.

Progressive Ind., 36, Sutar Chawl, Bombay 400002.

Quality Cartons, 128, Allied Ind. Estate, off M.M. Chhotani Rd., Bombay 400016.

Vijay Flexible Containers, 106, Bazar Ward, Bombay 400070.

Vora Bros., 115, S. Devji St., Bombay 400003.

Zenith Tin Works Pvt. Ltd., Clerk Rd., off Race Course, Bombay 400034.

Mysore

Cardboard & Packaging Co. Mysore Pvt. Ltd., Bank of India Bldg., 10, Kempegowda Rd., Bangalore 560009.

Industrial Packaging Products, C-32, Ind. Estate, Bangalore 560044.

Mysore Cardboard & Packaging Co. Ltd., Domlur Rd., Mysore 570001.

Punjab

Jain Box Factory, Guru Bazar, Jullundur 144001.

Kakar Box Factory, Purana Dal Bazar, Ludhiana 141001.

Ruby Box Factory, 54, Basti Nan, Jullundur 144001.

Tamil Nadu

Cartons & Containers, F-61, Ambattur Ind. Estate, Madras 600058.

Dindigul Envelopes, Bags & Boardmakers, Co-op. Cottage Ind. Soc. Ltd., Dindigul 624001.

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7. Jayvadan Jayantilal Ghia.
8. Dhananjaya Ranchordas Mehta.
9. Ranjit Rai Khullar.
10. Mr. Prabhakar Gupta, (Nominee of I.F.C.).

Pratap Ratilal Parekh, *Managing Director.*
Ashok Navnitlal Chokshi, *Managing Director.*

Secretary & Chief Accountant :
Rasiklal Dwarkadas Goradia.

East India Ind. (Madras) Pvt. Ltd., 498, Mint St., Madras 600003.

Jayant Packaging Pvt. Ltd., Super Ind. Estate, Madras 600032.

Laminated Packagings Pvt. Ltd., Bombay Mutual Bldgs., Madras 600001.

National Polyesters, 61, Arcot Rd., Madras 600026.

Packwell Ind. Pvt. Ltd., Chromepet 600044.

Premier Paper Products, 32, Venkataswamy Rd., P.O. R.S. Puram, Coimbatore 611002.

Uttar Pradesh

Box & Carton Pvt. Ltd., 37/4, The Mall, Kanpur 208001.

Suraj Ind. Packing Ltd., Sriniketan, Gurudwara Rd., Lucknow 226001.

Suraj Prakash & Sons Pvt. Ltd., 6-76-16, Gurudwara Rd., Lucknow 226001.

West Bengal

Aluminium Corpn. of India Ltd., 7, Council House St., Calcutta 700001.

Arun Corrugating & Packaging Ind., 36, Brabourne Rd., Calcutta 700001.

Associated Packaging Ind., 37, B.R.B. Bose Rd., Calcutta 700001.

Cardboard Box of Calcutta Pvt. Ltd., 2/4A, S. Ghosh St., Calcutta 700009.

Cardboard Materials & Printing Co. Pvt. Ltd., 7, Convent Rd., Calcutta 700014.

Containers & Closures Ltd., 4, Fairlie Place, Calcutta 700001.

Crosley & Towers Pvt. Ltd., 7A, Lower Circular Rd., Calcutta 700017.

Diamond Products Ltd., 4, Clive Row, Calcutta 700001.

Impex Corpn., 235, R. M. Dutta Garden Rd., Calcutta 700010.

India Foils Ltd., 4, Mangoe Lane, Calcutta 700001.

Kajoria Chemipaper Pvt. Ltd., 28, Amratolla St., Calcutta 700001.

Metal Box Manufg. Co. of India Ltd., Barlow House, 59-C, Chowringhee, Calcutta 700020.

Modern Cardboard & Paper Ind. Ltd., 22, Canning St., Calcutta 700001.

Packaging & Printing Ind., 1, British Indian St., Calcutta 700001.

Prafulla Box Manufg. Co. Pvt. Ltd., 80/2, B. Khana Rd., Calcutta 700009.

S. Antool & Co. Pvt. Ltd., 91, A. P. Chandra Rd., Calcutta 700009.

Swastik Box Manufg. Co., 36, G. Sitalatala Lane, Calcutta 700011.

PAINT, VARNISHES AND ENAMEL

Andhra Pradesh

Deccan Porcelain & Enamel Works Ltd., 2707, Bakaram, P.B. 1801, Mushirabad, Hyderabad 500020.

Nellore Enamels, Ind. Estate, Nellore 524001.

Assam

Assam Paints & Chemical Works, Tinsukia 786125.

Goa

Goa Paints & Allied Products, Dempo House, Campal, Panaji 403001.

Gujarat

Anchor Paint Manufg. Co., 959, Chandra Chambers, Raipur Chakla, Ahmedabad 380001.
Comet Paints Pvt. Ltd., A. Sojitra Rd., Vallabh Vidyanagar, Kaira Dist.
Good-luck Oil & Paint Co., Khanderao Rd., Opp. Jawahar Society, Vadodara.
Paradise Oil & Paints Products, N. I. Muni Ind. Estate, Bapunagar, Ahmedabad 380023.
Saurashtra Paints Pvt. Ltd., Vatva, Ahmedabad Dist.
Valian Paints Pvt. Ltd., 38, Madhubhai Mills Comp., Ahmedabad 380018.

Kerala

Travancore Enamel Ind. Ltd., Kundara.

Madhya Paradesh

Commercial Paint & Chemicals Works, 293, M. Gandhi Rd. (Kadabih), Indore.
Synpro Ind., 50-51, Ind. Estate, Indore.

Maharashtra

Advance Paints Pvt. Ltd., 125, N. Master Rd., Bombay 400001.
Anand Chemicals, 8, Horniman Circle, Botawala Bldg., Bombay 400001.
Anant Machinery Pvt. Ltd., Plot No. 3-B, Chinchwad Ind. Area, Pune 411019.
Asco Paint Ind., 26, Sutar Chawl, Bombay 400002.
Asian Paints (India) Pvt. Ltd., 'Nirmal', Nariman Point, Bombay 400020.
Atomic Paint Ind., Sonawala Estate, Goregaon (East), Bombay 400063.
Baker Bros., 31, C. P. Tank Rd., Bombay 400004.
Bharat Ind., I. B. Hasan Chambers, Parsee Bazar St., Bombay 400001.
Bharat Varnish Manufg. Co., L. B. Shastri Marg, Ghatkopar, Bombay 400086.
Blundell Eomite Paints Ltd., Rustam Bldg., 29, V. Nariman Rd., Bombay 400001.
Bombay Paints & Allied Products Ltd., Corridor Rd., Gavanpada, Chembur, Bombay 400074.
Bright & Co. Pvt. Ltd., Saki Vihar Rd., Sakinaka, Bombay 400072.
Carbon Dry Colour Works, 115, Nagdevi St., Bombay 400003.
Central Paint Co. Pvt. Ltd., 110, Ind. Estate, Indore.
Chemo Age Ind., Rambaug, Chincholi, S. Vivekanand Rd., Malad (West), Bombay 400064.
Chowgule & Co. (Hind) Pvt. Ltd., India House, Bombay 400001.
Colour Chem Ltd., Ravindra Annexe, D. Vachha Rd., Bombay 400020.
Cooper & Co., 53, Abdul Rehman St., Bombay 400003.
Cosmos Paint Ind., 119, Krishna Chowk, Mulji Jetha Market, Bombay 400003.
Crystal Paints, Seksaria Silk Mills Comp., Chincholi, S. Vivekanand Rd., Malad (West), Bombay 400064.
D. D. Shah & Co., Akurli Rd., Kandivli (East), Opp. Mahendra & Mahendra Ltd., Bombay 400067.
Dr. Beck & Co. (I) Ltd., Bombay-Pune Rd., Pimpri, Pune 411018.
Dujodwala Ind., 95-B, Marine Drive, Meghdut, Bombay 400002.
Dura Chemical Corpn. Pvt. Ltd., Wakefield House, 11, Sprott Rd., Ballard Estate, Bombay 400001.
Elphinstone Paint & Colour Manufg. Co., 50, Elphinstone Rd., Bombay 400013.
Esdee Paints, Near Power House, Kolshet Rd., Thana 400601.
Firoz Colour Ind., 66, A. Umer St., Bombay 400003.
Forage & Co., Tamarind House, 36, Tamarind Lane, Bombay 400001.
F. Victor & Co., 167, A. Rehman St., Bombay 400003.
General Pigment & Chem. Prod. Pvt. Ltd., Saki Vihar Rd., Saki Naka, Bombay 400072.
Goodlass Nerolac Paints Ltd., Forbes Bldg., Home St., Bombay 400001.
Hardcastle & Waud Manufg. Co. Pvt. Ltd., Alice Bldg., Dr. D. Naoroji Rd., Bombay 400001.
Hindustan Oil Mills, Post Office Lane, Saki Naka, Bombay 400072.
Ians Metal & Enamel Works, Pvt. Ltd., Kasturchand Mills Estate, Dadar, Bombay 400028.
Indofil Chemicals Ltd., Belvandi House, Dr. A. Besant Rd., Worli, Bombay 400025.
Industrial Coatings Corpn., T. K. Ind. Estate, Near Mckenzies, Off Acharya Donde Marg, Sewree, Bombay 400015.
Industrial Minerals & Chemicals Co. 125, N. Dhuru St., Bombay 400003.
Jayant Colour & Chemical Ind., Gupta Mill Estate, Darukhana, Reay Rd., Bombay 400010.
Jyoti Oil & Paint Co., Morarji Velji Estate, Gorai Rd., Borivli (West), Bombay 400092.
Kamal Paint Ind., Ram Mandir Ind. Premises, Ram Mandir Rd., Goregaon East, Bombay 400063.
Khurana & Sons, I. B. Patel Rd., Goregaon (East), Bombay 400063.
Mercury Paint & Varnish Ltd., V. Sawarkar Rd., Prabhadevi, Bombay 400025.
Metalex Ind., Junction Tata-Agra Rd., Bhandup, Bombay 400078.
Midland Ind., 47, Great Nag Rd., Nagpur 440003.
Nagrechha Paint Ind., Ram Mandir Ind. Estate, Ram Mandir Rd., Goregaon (East), Bombay 400063.
Napro Paints & Varnishes Manufrs., 1278, S. Bajirao Rd., Vishnu Chowk, Pune 411030.
National Paint Manufg. Co., 75, Village Rd., Bhandup, Bombay 400078.
Navyug Colour & Chemical Co., 75, Village Rd., Bhandup, Bombay 400078.
New Era Paint Works, Plot No. 26, Mahal Ind. Estate, Mahakali Rd., Andheri (East), Bombay 400059.
Noble Paint & Varnish Co. Pvt. Ltd., Ferguson Rd., Lower Parel, Bombay 400013.
Ogale Glass Works Ltd., Ogalewadi, Satara Dist.
Panama Paint Ind., J. B. Nagar, M. V. Rd., Kondivita Lane, Andheri (East), Bombay 400059.
Pidilite Ind. Pvt. Ltd., Mafatlal House, Backbay Recl., Bombay 400020.
Pioneer Enamelling Works, Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.
Polymer Finishes, 8, T. Jivaraj Wadi, Off King Edward Rd., Sewree, Bombay 400015.
Poysha Ind. Co. Ltd., Messant Rd., P.O. Tank Rd., Bombay 400033.
Prakash Paint Ind., 11, Vipul Co-op. Housing Society Ltd., 255-A, Ridge Rd., Bombay 400006.

Rainbow Colour Works, I. B. Patel Rd., Goregaon (East), Bombay 400063.

Reliable Colour Works, 61, Jail Rd. (North), Bombay 400009.

R. R. Paint Ind. (I) Pvt. Ltd., L. B. Shastri Rd., Bhandup, Bombay 400078.

Sarang Paint & Varnish Ind., 'Advent', 2-A, Foreshore Rd., Bombay 400001.

Savlar Paint & Varnish Works Pvt. Ltd., Saki Vihar Rd., Saki Naka, Bombay 400072.

Saurashtra Paints Pvt. Ltd., Taj Bldg., Wallace St., Bombay 400001.

Sigma Paints Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.

Snowcem India Ltd., Killick House, Home St., Bombay 400001.

Star Paint & Oil Ind., Crescent Chambers, Tamarind Lane, Bombay 400001.

Sudarshan Chemical Ind., Pvt. Ltd., 27, Shankarshet Rd., Pune 411002.

United Colour Co., 26-A, A. R. Rangnekar Marg, French Rd., Bombay 400007.

United Ink & Varnish Co. Pvt. Ltd., 37-40, Paranjpe B-Scheme, Vile Parle, Bombay 400057.

Universal Paint Corpn. Pvt. Ltd., 39, Nagdevi St., Bombay 400003.

Urvashi Ind., Block No. 16/A, Bombay Cotton Mills Estate, Kalachowki Rd., Bombay 400033.

Wakefield Paint Pvt. Ltd., 80, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Mysore

Amar Paints & Allied Ind., M. M. Ind. Estate, Yediyur, Bangalore 560011.

Bangalore Enamels, Paints & Chemicals Ltd., XI Main Rd., Malleswaram, Bangalore 560003.

Karnatak Paint & Allied Products, Gokul Rd., Hubli 580021.

Mysore Lac & Paint Works Ltd., Thilak Nagar, Mysore 570007.

Delhi

Bhagsons Paint Ind. (I.), 16-A, DLF Ind. Area, Najafgarh Rd., 110015.

India Trading House, Fatehpuri, Delhi 110006.

International Paint Ind., 2/21, Roop Nagar, Delhi 110007.

Khurana Bros., 1742, Nai Basti, S. P. Mukerji Marg, Delhi 110006.

Metro Paint Ind., 260, Kamla Market, New Delhi 110001.

Spraylac Paints Corpn., 9, N. Subash Marg, Darya Ganj, Delhi 110006.

Uppal Paint Ind., 11/24, East Patel Nagar, New Delhi 110008.

Rajasthan

Rajasthan Paints, Wadi Garden, Moti Dungri Rd., Jaipur 302004.

Tamil Nadu

Addisons Paints & Chemicals Ltd., Huzur Gardens, Sembiam, Madras.

Anuradha Paints, 149/1, Ramapuram, Mt. Poonamallee High Rd., Madras 600089.

Madras Enamel Works, Ltd., 65, Sydenham Rd., Madras 600003.

Ravi Paints & Chemicals Ltd., 85-87, Armenian St., Madras 600001.

Uttar Pradesh

Alka Ind., Alambagh, Lucknow.

Bansi Lal & Son, Sahibabad, P.O. Ghaziabad 201001.

Chemi Chrome Ind. Pvt. Ltd., 84/79, G.T. Rd., Kanpur.

Hindustan Paint & Chemical Works, 8/85, Arya Nagar, Kanpur.

Modi Paint & Varnish Works, Modinagar.

Nagrath Paints Pvt. Ltd., 46, Fazalganj, Kanpur 208001.

Premier Paints, 123/435, Fazalganj, Kanpur.

Punjab Paint Colour & Varnish Works, 123/529, Fazalganj, Kanpur 208001.

Reko Mercantile Traders, 28, Blunt Square, Lucknow.

West Bengal

A. K. Sarkar Ind. Pvt. Ltd., 32-1-Dalhousie Sq., Calcutta 700001.

Alkali & Chemical Corpn. of India Ltd., 18, Strand Rd., Calcutta 700001.

Asiatic Paints & Chemicals, 3, Commercial Bldg., N. Subash Rd., Calcutta 700001.

Associated Pigments Ltd., 14, N. Subash Rd., Calcutta 700001.

Beco Chemicals, Thapar House, Calcutta 700001.

Belur Paint & Colour Co., 2, Mullick St., Calcutta 700007.

Bengal Enamel Works Ltd., 41, Chowringhee Rd., Calcutta 700016.

Bharat Tin & Enamel Co. Pvt. Ltd., 24, Shakespeare Sarani, Calcutta 700016.

Bijoy Paints & Chemicals, 6A, Balmukund Meccar Rd., Calcutta 700007.

Blue Star Enamelware Co. Pvt. Ltd., 4, Dalhousie Sq. East, Calcutta 700017.

British Paints (I.) Ltd., 32, Chowringhee Rd., Calcutta 700016.

Calcutta Paint Colour & Varnsih Works, 8, Chunapukur Lane, Calcutta 700012.

Chemi Paint Ind., 9, Lall Bazar St., Mercantile Bldg., Calcutta 700001.

Containers & Closures Ltd., 2, Fairlie Place, Calcutta 700001.

Eagle Paint & Pigment Ind. Pvt. Ltd., 135, B.R.B.B. Rd., Calcutta 700001.

East India Paint & Chemical Works Ltd., 21, G. C. Bose Lane, Calcutta 700050.

Empire Chemical Co., 5, Kustia Rd., Calcutta 700029.

General Paint Co. of India, Kaikhali P.O. Rajarhat, Gopalpur, Dum Dum.

G. S. Enterprise, 11, Ram Ratan Bose Lane, Calcutta 700004.

Hoyle's Paints Ltd., 18, Rabindra Sarani, Calcutta 700001.

Indian Paint Colour & Varnish Co. Ltd., 14, N. Subash Rd., Calcutta 700001.

Indian Aluminium Co. Ltd., 1, Middleton St., Calcutta 700016.

Indian Paints & Chemicals, 'Duke Court', 76, Theatre Rd., Calcutta 700017.

Jenson & Nicholson (I.) Ltd., 225, A. J. Bose Rd., Calcutta 700020.

Kem Ind. Products Pvt. Ltd., 40, Tangra Rd., Calcutta 700015.

Lakshmi Paint Works, 14/2, Old China Bazar St., Calcutta.
Macfarlane Paints, 18, R. N. Chowdhury Rd., Calcutta 700015.
Murarka Paint & Varnish Works Pvt. Ltd., 8E, Dalhousie Square East, Calcutta 700001.
M. L. Day & Co., 57B, Chittaranjan Ave., Calcutta 700012.
Napier Paint Works Pvt. Ltd., 3, Meti Sil St., Calcutta 700013.
Narayan Chowdhury Bros. Pvt. Ltd., 4, Jahura Bazar Lane, Calcutta 700012.
N. Haidar & Co. Pvt. Ltd., 21/D, S. Chatterjee St., Calcutta 700006.
Paints & Chemicals Co., 10, Govt. Place East, 26A, Ezra Mansion, Calcutta 700001.
Paints & Lacquers, 11B, S. N. Banerjee Rd., Calcutta 700013.
P. C. Chanda & Co. Pvt. Ltd., Budge Budge Rd., Calcutta 700060.
Ruby Paint & Varnish Works Pvt. Ltd., 96, M. Gandhi Rd., Calcutta 700007.
Shalimar Paints Ltd., 13, Camac St., Calcutta 700017.
Solar Paint & Varnish Manufg. Co., B. Trunk Rd., P.O. Belgharia, Calcutta 700056.
Solar Paints Pvt. Ltd., 14, Barrackpore Trunk Rd., Calcutta 700056.
Sur Enamel & Stamping Works Ltd., 9, Middle Rd., Calcutta 700001.
Technico Enterprizes Pvt. Ltd., 592, Block 'O', New Alipore, Calcutta 700053.

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Waldies Ltd., Gillander House, 8, N. Subash Rd., Calcutta 700001.

PERFUMES AND AGARBATTI

Delhi

Bombay Perfumery Co., 1997, Gali Nilawali, Sitaram Bazar, Delhi 110006.
Calcutta Perfumery Works, Behind Kumar Cinema, Chandni Chowk, Delhi 110006.
Gogia Chemical Ind., G-1/4, Model Town, Delhi 110009.
Gupta & Co., Sadar Bazar, Delhi 110006.
J. K. Ind. Perfumers, 7, Shandar Market, 1430, Chitli Qubar, Delhi 110006.
Kanta Chemical Co., 133, Tilak Bazar, Khari Bauli, Delhi 110006.
Mohanlal Pyarelal, 5594/91, Gandhi Market, Sadar Bazar, Delhi 110006.
Rishabh & Co., 565, Paharganj, New Delhi 110055.
Seth Brothers, 2348, Tilak Bazar, Delhi 110006.
Sohan Singh Attarwala & Son, 6484-Katra Baryan, Fatehpuri, Delhi 110006.

Gujarat

Ami Chemicals, Desra Rd., Bilimora, Valsad Dist.
J. B. Shah & Co., Pankaj Society, Sarkhej Rd., Ahmedabad 380007.
M. L. Rathod & Co., Opp. Gaisford Talkies, Rajkot 360001.
R. V. Dodia & Co., Dodia Mansion, M. Gandhi Rd., Rajkot 360001.
Wala & Co., Nanbhawadi, Bhavnagar 364002.

Maharashtra

A. A. Attarwala & Co., 295, Janjikar St., Opp. Jumma Masjid, Bombay 400002.
A. Hami Bros., 8, Patka Manzil, E. Rahimtoolla Rd., Bombay 400003.
A. J. Patwa & Co., 86, Sutar Chawl, Bombay 400002.
Allwyns, Ram Niwas, Second Parsiwada, V. Patel Rd., Bombay 400004.
Aromatic & Ind. Chemicals Pvt. Ltd., Mulji Jetha Bldg., 12, Champa Galli Cross Lane, Bombay 400002.
Aromatic Products & Chemicals Pvt. Ltd., 42, Prospect Chambers, Dr. D. Naoroji Rd., Bombay 400001.
Attari Bros., 3, Commercial Chambers, Masjid Bunder Rd., Bombay 400003.
Camphor & Allied Products Ltd., Jehangir Bldg. 133, M. Gandhi Rd., Bombay 400001.
D. D. Shah & Co., Damodar Bldg., 105, S. Gandhi Marg, Bombay 400002.
D. G. Gore, 31, Mangaldas Rd., Bombay 400002.
Divine Perfumers, Pirbhoy Bldg., 89, S. Gandhi Marg, Bombay 400002.
Dujodwala Ind., 1401, Prasad Chambers, Near Roxy Cinema, Bombay 400004.
Eastern Aromatics Pvt. Ltd., Datta Mandir Rd., Bhandup, Bombay 400078.
Enamdar Trading Co., Devkaran Mansion, 63, S. Gandhi Marg, Bombay 400002.
Ethical Products (I) Pvt. Ltd., Advani Chambers, Sir P. Mehta Rd., Bombay 400001.
Fairy Ind., 38/C, Mohammad Ali Rd., Bombay 400003.
Foreign Scent Supplying Syndicate, Station Rd., Goregaon West, Bombay 400062.

Fragrance and Flavour Corpn., C-11, Udyog Sadan, Marol Ind. Area, Andheri East, Bombay 400059.

Golax Ind. Perfumers, A-4, Shivaji Service Ind., Taikalwadi Rd., Bombay 400016.

Gosha Kemo (I), Devkaran Mansion, 79/A, S. Gandhi Marg, Bombay 400002.

Gupta & Co., Saraf Mansion, S. Gandhi Marg, Bombay 400002.

H. K. Daftary, Devkaran Mansion, S. Gandhi Marg, Bombay 400002.

H. M. Zakaria & Bros., 299, V. Patel Rd. East, Bhendi Bazar, Bombay 400003.

Hami & Co., New Cutlery Market, Jumma Masjid Rd., Bombay 400002.

Hemani Aromatics, Minerva Movietone Comp., Bunder Rd., Sewri, Bombay 400015.

Ina Trading Co., 107, S. Gandhi Marg, Bombay 400002.

Indian Organic Chemicals Ltd., 28, Apollo St., Bombay 400001.

Industrial Perfumes Ltd., Army & Navy Bldg., M. Gandhi Rd., Bombay 400001.

J. D. Savant & Co., Gordhandas Khimji Bldg., 35, Vithaldas Rd., Bombay 400002.

Jaysmee Products, 126, K. Syed St., Bombay 400003.

Lana Floressens, 178, C.S.T. Rd., Kalina, Bombay 400029.

M. D. Patel & Co., 79/A, S. Gandhi Marg, Bombay 400002.

M. M. Khambatwala, 440, Kalbadevi Rd., Bombay 400002.

Mahesh Ind. Chemicals Pvt. Ltd., Maganlal Prabhudas Bldg., 52/54, Nakhoda St., Bombay 400003.

Mody & Co., Engineer Bldg., 265, S. Gandhi Marg, Bombay 400002.

Mohini Agency, Zakaria Bldg., 7, S. Devji St., Bombay 400003.

Mysore Fine Agarbatti Factory, Shop No. 50, M.M.C. Market, Grant Rd., Bombay 400007.

Mysore Y. G. Agarbatti Works, Rangoonwala Bldg., 91, Mohamedali Rd., Bombay 400003.

Mysore Sugandhi Dhoop Factory, 13, Commercial Chambers, Masjid Bunder Rd., Bombay 400003.

Mysore Y. S. Agarbatti Works, 6, Arab Lane, Byculla, Bombay 400008.

Naarden Chemical Works (I) Ltd., Sakinaka, 6, Saki Vihar Rd., Bombay 400072.

National Essence Supply Co., Tanksal Bhavan, 191, Kalbadevi Rd., Bombay 400002.

National Trading Co., 190-91, Mangaldas Rd., Bombay 400002.

New India Aromatics Co., Devkaran Mansion No. 3, 45/47, S. Gandhi Marg, Bombay 400002.

Oriental Aromatics, Saraf Mansion, 32, S. Gandhi Marg, Bombay 400002.

P. M. Rathod & Co. Pvt. Ltd., 453, Kalbadevi Rd., Bombay 400002.

R. C. Aromatics & Chemicals, 69, Bhandari St., Mandvi, Bombay 400003.

Radhakrishnan Rajaram & Co., 141, S. Gandhi Marg, Bombay 400002.

Rayon Ind., Navyug Mansion, N. Barucha Rd., Grant Rd., Bombay 400007.

S. H. Kelkar & Co., Pvt. Ltd., 36, Mangaldas Rd., Bombay 400002.

Saiba Ind. Pvt. Ltd., 129/31, K. Syed St., Bombay 400002.

Satish Perfumers, C/o. V. M. Kelkar, Mulchand Mansion, S. Gandhi Marg, Bombay 400002.

Shah Agarbatti Co., 66, Kalyan St., Bombay 400009.

Sunanda Aromatic Ind., 11-13, Botawala Chambers, Horniman Circle, Bombay 400001.

Suneeta Aromatics, Three View Bldg., Opp. Century Bazar, Bombay 400025.

Synoflor Co., Saraf Mansion, 32, S. Gandhi Marg, Bombay 400002.

Vishwa Bharati Traders, 206, Anant Deep Chambers, 273/77, N. Natha St., Bombay 400009.

Western India Chemical Co., Aromatic Division, Bassein, Thana.

Mysore

Aromatik (I) Pvt. Ltd., 38, Link Rd., Malleswaram, Bangalore 560003.

Bharat Ind. Corpn., 67, Third Cross Rd., Srirampuram, Bangalore 560021.

The Modern India Trading Co., 5, Park Rd., Bangalore 560002.

The Mysore Agarbatti Co., 1, Madarsab St., Bangalore 560053.

Rajasthan

Adarsh Chemical Works, Adarsh Nagar, Jaipur 302004.

Tamil Nadu

Kanuma Aromatics, 85, N. Naick St., Madras 600003.

Uttar Pradesh

Chhotelal & Co., Sant Kabir Rd., Varanasi 221001.

Jainco Products, Perfumers, Kannauj.

Kanhayalal Madhoram, Perfumers, Kannauj.

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Shaivi Industries, Chowk, Lucknow 226003.

PESTICIDES

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Jayalakshmi Fertilisers, Pesticides Division, Venkatarayapuram, Tanuku.

Plant Protection Products Pvt. Ltd., 4/90, A-Nawabpet, Nellore 524002.

Bihar

Bihar Insecticides, P.O. Majhaulia, Champaran Dist.

Delhi

Dow Chemicals N.V., 14, Golf Links, New Delhi 110003.

Grain Conservation & Warehousing Ind. Pvt. Ltd., 16-B, Poorvi Marg, New Delhi 110060.

Hindustan Insecticides Ltd., C-255, Defence Colony, New Delhi 110003.

Industrial & Allied Sales Pvt. Ltd., 2E, Rani Jhansi Rd., New Delhi 110055.

Industrial Chemicals & Minerals, 4/5-B, A. Ali Rd., New Delhi 110001.

Jaipal Udyog, 604 Akash Deep, 26-A, Barakhamba Rd., Connaught Lane, New Delhi 110001.

Northern Minerals Pvt. Ltd., 138, Kamla Market, New Delhi 110001.

Pesticides India, 16, Rind Rd., Lajpat Nagar IV, New Delhi 110024.

Union Carbide India Ltd., United Commercial Bank Bldg., Parliament St., New Delhi 110001.

Valsicol Chemical Corpn., C-4/38, Safdarjang Development Area, New Delhi 110016.

Voltas Ltd., 10-A, K. Gandhi Rd., New Delhi 110001.

Goa

Goa Pesticides Pvt. Ltd., Chowgule House, Murmagao Harbour.

Gujarat

Alembic Chemical Works Co. Ltd., Alembic Rd., Vadodara 390003.

Cropmore Pvt. Ltd., C-5 Naroda Ind. Estate, P.O. Naroda, Ahmedabad 380002.

Selective Chemicals Pvt. Ltd., Ruvapari Rd., Bhavnagar 364001.

Kerala

Aspinwall and Co. Ltd., Calnety, Cochin 682001.

Entoma Insecticides & Agro Chemicals, "Ram Kripa", Yakkara Rd., Palghat 678001.

Travancore Chemical & Manufg. Co. Ltd., Alwaye 683101.

Madhya Pradesh

National Pesticides, 5, Ind. Area, Vidisha 464001.

Maharashtra

Bayer (India) Ltd., Express Towers, Nariman Point, Bombay 400001.

Bharat Pulverising Mills Pvt. Ltd., Hexamar House, 28, Sayani Rd., Bombay 400025.

Bombay Chemicals Pvt. Ltd., 129, M. Gandhi Rd., Bombay 400001.

Bombay Fumigation Co. Pvt. Ltd., 93, Bazargate St., Bombay 400001.

Burmah-Shell Oil Storage and Distributing Co. of India Ltd., Burmah-Shell House, Ballard Estate, Bombay 400001.

Camphor & Allied Products Ltd., Jehangir Bldg., 133, M. Gandhi Rd., Bombay 400001.

Central Insecticides & Fertilizers, Vihar Lake Rd., Saki Naka, Bombay 400072.

Ciba of India Ltd., Khetan Bhavan, 198, J. Tata Rd., Bombay 400020.

Cynamid India Ltd., Nyloc House, 254-D2, Dr. A. Besant Rd., Bombay 400025.

Dai-Ichi Karkaria Pvt. Ltd., Liberty Bldg., New Marine Lines, Bombay 400001.

Delicia India Ltd., Mahalakshmi Chambers, 22, B. Desai Rd., Bombay 400026.

Dharamsi Morarji Chemical Co. Ltd., Prospect Chambers, 317/21, Dr. D. Naoroji Rd., Bombay 400001.

Excel Ind. Ltd., 184-87, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Farm Chemicals Ltd., Jiji House, Ravelin St., Bombay 400001

Feeds & Fertilizers, 40, Western India House, Sir P. Mehta Rd., Bombay 400001.

Hico Products Pvt. Ltd., Mogal Lane, Mahim, Bombay 400016.

Hoechst Pharmaceuticals Ltd., Dugal House, Backbay Recl., Bombay 400020.

Indofil Chemicals Ltd., Belvandi House, Dr. A. Besant Rd., Bombay 400025.

Industrial Minerals & Chemical Co., 125, N. Dhuru St., Nagdevi, Bombay 400003.

May & Baker (India) Pvt. Ltd., P.N.B. House, Sir P. Mehta Rd., Bombay 400001.

Monsanto Chemicals of India Pvt. Ltd., Wakefield House, 11, Sprott Rd., Ballard Estate, Bombay 400001.

National Organic Chemical Ind. Ltd., Sandoz House, Dr. A. Besant Rd., Bombay 400018.

New Chemi-Mineral Mills Pvt. Ltd., Ashok Nagar Cross Rd., No. 1, Kandivli (East), Bombay 400067.

Panta Chem, Station Rd., Ahmednagar 414001.

Pest Control (India) Pvt. Ltd., Yusuf Bldg., M. Gandhi Rd., Bombay 400001.

Pesticides Brewers Ltd., Village Chitalsar, Munpada, Ghodbunder Rd., Thana.

Pestokem Ind. Pvt. Ltd., 40/3, Shankar Vihar, 17th Rd., Chembur, Bombay 400071.

Rallis India Ltd., Rallis House, 21, Ravelin St., Bombay 400001.

Sai-Chemie International, 203, Pushpa Bhavan, Opp. Telephone Bhavan, Colaba, Bombay 400005.

Sandoz (India) Ltd., Sandoz House, Dr. A. Besant Rd., Worli, Bombay 400018.

Standard Mineral Products Pvt. Ltd., 94, N. Master Rd., Bombay 400001.

Star Chemicals (Bombay) Pvt. Ltd., 21, Noble Chambers, Parsi Bazar St., Bombay 400001.

Sudhir Chemical Co., 524, Sayani Rd., Bombay 400025.

Sviluppo Attivita Industrialic Commerciate, S.P.A., Saheb Bldg., 195, Dr. D. Naoroji Rd., Bombay 400001.

Tata Chemicals Ltd., Bombay House, 24, Bruce St., Bombay 400001.

Tata Fison Ind. Ltd., 21, Ravelin St., Bombay 400001.

Mysore

Agromore Ltd., Mysore Rd., Bangalore 560026.

Bangalore Pesticides Ltd., 7/4, Sankey Rd., Bangalore 560020.

Rajasthan

Krishna Miners & Traders, 1, Gehlot Bhavan, New Colony Rd., Jaipur 1.

Metal Udyog Pvt. Ltd., Gulab Niwas, M. Ismail Rd., Jaipur 302001.

Pesticides India, Post Box 20, Udaipur 313001.

Prakash Pulverising Mills, Ind. Area, Alwar 301001.

Tamil Nadu

Bhavaneswari Pulverising Mills Pvt. Ltd., 6-A, North Crescent Rd., T. Nagar, Madras 600017.

E.I.D. Parry Ltd., Dare House, Madras 600001.

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Insecticides & Allied Chemicals, Narayana Puram, Pallikaranai Village, *via* Tambaram, Chingleput Dist.

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Mysore Insecticides Co. Pvt. Ltd., Andhra Bank Bldg., No. 6, Linghi Chetty St., Madras 600001.

Scientific Insecticides Co. Pvt. Ltd., 13/14, Second Line Beach, Madras 600001.

Uttar Pradesh

Kanpur Pesticides, 15/78, Civil Lines, Kanpur 208001.

Motilal Pesticides (I.), H. O. Raman Tower, Mathura 281001.

Prakash Insecticides Pvt. Ltd., H.O. Naini, 263001.

Singhal Pesticides, 9/122, Moti Bagh, Jamuna Bridge, Agra 282006.

West Bengal

Alkali & Chemical Corpn. of India Ltd., 18, Strand Rd., Calcutta 700001.

Bharat Minerals & Chemicals Co., 174, M. Gandhi Rd., Calcutta 700007.

Croplife Chemicals Pvt. Ltd., 2, Sooterkin St., Calcutta 700013.

Imkemex India Ltd., 34, Chowringhee, Calcutta 700016.

India Alkalies Ltd., 5, Garstine Place, Calcutta 700001.

Kanoria Chemicals & Ind. Ltd., 9, Brabourne Rd., Calcutta 700001.

Mascot Insulations, 99/5/8A, Ballygunge Place, Calcutta 700019.

Metropole Ind., 73, N. Subash Rd., Calcutta 700001.

Rajda Pesticides & Pest Control Corpn., 1, Portuguese Church St., Calcutta 700001.

Shaw Wallace & Co. Ltd., 4, Bankshall St., Calcutta 700001.

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Maharashtra

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Jyoti Bangle Works, Bomlia Falia, Vadodara 390004.
Oriental Plastics, Kalyana Kunj, Pratap Nagar, Vadodara 390004.
Sarvoday Industries, Krishna Ind. Estate, Pratap Nagar Rd., Chowkhandi Market, Vadodara 390001.
Zaveri & Co., Seth Falia, Bharuch 392001.

Maharashtra

Ajit Bangle Works, Ashok Comp., Carter Rd., 6th Lane, Borivli (East), Bombay 400092.
Alankar Industries, Churiwadi, Goregaon (East), Bombay 400063.
Alka Industries, Padia Comp., Irani Wadi, Hemukalani Rd., Kandivli (West), Bombay 400067.
Amardeep Industries, Gamdevi Rd., Poisar, Kandivli (West), Bombay 400067.
Ambika Celluloid Industries, Simpovli, S. Vivekanad Rd., Borivli (West), Bombay 400092.
Amrit Plastics, 3rd Cross Lane, Mamlatdar Wadi, Malad (West), Bombay 400064.
Arco Bangle Works, Sonawala Estate, Goregaon(East), Bombay 400063.
Aryan Industries and Trades, Samson Comp., Goregaon (East), Bombay 400063.
Ashok Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.
Babli Products (I), Samson Comp., Goregaon (East), Bombay 400063.
Bakul Bangle Works, Bliss Comp., Nivetia Rd., Malad (East), Bombay 400064.
Banaskantha Bangle Industries, Borivli (East), Bombay 400092.
Bharat Bangle Industries, Gale-D, Kala Ind. Estate, Vishweshwar Nagar, Goregaon (East), Bombay 400063.
Blue Band Products, Pritoria Comp., Marve Rd., Malad (West), Bombay 400064.
Bombay Bangle Works, Samson Comp., Goregaon (East), Bombay 400063.
Cello Plastic Industrial Works, Churiwadi, Goregaon (East), Bombay 400063.
Celluloid Bangle Works, Vijaykar Wadi, S. Vivekanand Rd., Malad (West), Bombay 400064.
Chandan Industries, Churiwadi, Goregaon (East), Bombay 400063.
Chhaya Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.
Dahyalal K. Shah, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.
Delux Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.
Deepak Art Industries, Plot E, Sonawala Estate, Goregaon (East), Bombay 400063.
Diamond Bangles Rambaug, S. Vivekanand Rd., Malad (West), Bombay 400064.
Dipco Products, Bliss Comp., Nivetia Rd., Malad (East), Bombay 400064.
Diamond Industries, Kala Ind. Estate, Vishweshwar Nagar, Goregaon (East), Bombay 400063.

Divya Products, 84, Vijaykar Wadi, S. Vivekanand Rd., Malad (West), Bombay 400064.

Gandhi Industries, Churiwadi, Goregaon (East), Bombay 400063.

Ganesh Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.

Geeta Industries, 182, Ghodbunder Rd., Goregaon (West), Bombay 400062.

Gemini Industries, 3, Goghatewadi, Goregaon (East), Bombay 400063.

General Products, Sonawala Estate, Goregaon (East), Bombay 400063.

Golden Products, Kailaspuri Hill, Govind Nagar Rd., Malad (West), Bombay 400064.

Good Luck Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Goregaon Ind. Corp., Samson Comp., Goregaon (East), Bombay 400063.

Indian Celluloid Industry, Churiwadi, Goregaon (East), Bombay 400063.

International Art Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Jay Products, Bliss Comp., Nivetia Rd., Malad (East), Bombay 400064.

Jogi Bangle Industries, Heji Bapu Rd., Nadiadwala Tabela, Malad (East), Bombay 400064.

Jyoti Industries, Interlink Ind. Estate, Caves Rd., Jogeshwari (East), Bombay 400060.

Kaj Industries, 384, Kalbadevi Rd., Bombay 400002.

Kala Kendra, Churiwadi, Goregaon (East), Bombay 400063.

Kalapi Bangles, Samson Comp., Goregaon (East), Bombay 400063.

Kamla Bangles, Churiwadi, Goregaon (East), Bombay 400063.

Kamal Products, Lavji Nanji Comp., N. J. Rd., Malad (West), Bombay 400064.

Kesar Industries, Churiwadi, Goregaon (West), Bombay 400063.

Kiron Products, Savita Estate, Aarey Rd., Goregaon (East), Bombay 400063.

Kirti Bangle Industries, Churiwadi, Goregaon (East), Bombay 400063.

Kohinoor Plastics Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Krishna Bangle Works, Churiwadi, Goregaon (West), Bombay 400063.

Kundan Plastic Industries, Sainath Bldg., Gala-27, Kothar Estate, Goregaon (East), Bombay 400063.

Laxmi Bangle Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Madhu Products, Ghaswala Estate, S. Vivekanand Rd., Jogeshwari (West), Bombay 400060.

Mahavir Bangle Works, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Maniar Art Industries 31, Interlink Ind. Estate, Caves Rd., Jogeshwari (East), Bombay 400060.

Manmohan Bangle Works, Carter, Rd., 6th Lane, Borivli (East), Bombay 400092.

Metro Bangle Works, 73-D, Govt. Ind. Estate, Kandivli (West), Bombay 400067.

Modern Bangle Works, Simpovli, S. Vivekanand Rd., Borivli (West), Bombay 400092.

Mukesh Products, Churiwadi, Goregaon (East), Bombay 400063.

Neela Plastic & Rubber Products, Sonawala Estate, Goregaon (East), Bombay 400063.

New Art Industries, Ram Baug, S. Vivekanand Rd., Malad (West), Bombay 400064.

Nityanand Bangle Works, 104/P, Gauthan Rd., Bhandarwada, Malad (West), Bombay 400064.

Nutan Art Industries, Bliss Comp., Nivetia Rd., Bombay 400064.

Pankaj Plastic Products, 139, Agarwal Ind. Estate, Jogeshwari (West), Bombay 400060.

Paras Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Parikh Bangle Works, Samson Comp., Goregaon, (East), Bombay 400063.

Pibi Industries, 29/A, Jawahar Nagar, Goregaon (West), Bombay 400062.

Prafulla Industries, 84, Vijaykar Wadi, S. Vivekanand Rd., Malad (West), Bombay 400064.

Pramod Industries, 84, Vijaykar Wadi, S. Vivekanand Rd., Malad (West), Bombay 400064.

Purnima Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.

Radiant Plastics, Ram Baug, S. Vivekanand Rd., Malad (West), Bombay 400064.

Raj Bangle Industries, Block-C, Part II, Kala Ind. Estate, Goregaon (East), Bombay 400063.

Rajan Bangle Stores, 84, D'Souza St., Wadgadi, Bombay 400003.

Rajani Bangle Works, C/o Sapna Industries, 182, S. Vivekanand Rd., Near Jawahar Vidyalaya, Goregaon (West), Bombay, 400062.

Ramesh Bangle Works, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Rocket Art Industries, Vijay Kailas Ind. Estate, Sonawala Estate, Goregaon (East), Bombay 400063.

Roopkala Industries, Karachiwala Chawl, Opp. Mission Hospital, Dahanu Rd., Thana (Dist.).

Ruby Products, Ashok Nagar, Kandivli (East), Bombay 400067.

Sadhana Industries, Carter Rd., 5th Lane, Borivli (East), Bombay 400092.

Saraswati Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.

Sarvoday Bangle Works, Adarsh Comp., Marve Rd., Malad (West), Bombay 400064.

Sawani Industries, Plot E, Shed 5, Sonawala Estate, Goregaon (East), Bombay 400063.

Shakti Vacuum Products, Nagindas Chambers, 167, P. D'Mello Rd., Bombay 400001.

Sharda Industries, Churiwadi, Goregaon (East), Bombay 400063.

Shree Bangles, Deepak Bldg., Santacruz (East), Bombay 400055.

Sohag Kangan Manufg., 161, B. Khote Street, Bombay 400003.

Star Products, Simpson, S. Vivekanand Rd., Borivli (West), Bombay 400092.

Suman Industries, Simpson Comp., Goregaon (East), Bombay 400063.

Suresh Bangle Works, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.

Tarun Bangle Industries, Churiwadi, Goregaon (East), Bombay 400063.

Teeka Industries, 84, Vijaykarwadi, S. Vivekanand Rd., Malad (West), Bombay 400064.

United Export Corpn., Sham Bhavan, 2nd Kasturba Rd., Borivli (East), Bombay 400092.
Universal Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.
Usha Products, Simpson Comp., Goregaon (East), Bombay 400063.

Mysore

Bangle Industries & Trading Co., 43-44, Balapeth, Bangalore 560001.
Mysore Bangle Works, S-80-1, Balapeth, Bangalore 560001.

PLASTIC BLOW MOULDING

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R. B. Plastic & Metal Ind., P.O. Jharia, Dhanbad 826001.

Delhi

B. K. Plastic Pvt. Ltd., A207, Defence Colony, New Delhi 110003.
Maidan Brothers, 277, Sadar Bazar 110006.

Gujarat

Elite Plastic Co., 12A, Bharatkhand Cotton Mills Comp., Naroda Rd., Ahmedabad 380001.
Gujarat State Fertilizer Co. Ltd., P.O. Fertilizernagar, Vadodara Dist.
Hindustan Polythene & Plastic Works, Ind. Area, Wadi Yamuna Mill Rd., Vadodara 390004.
Vora Plastics Manufg. Co., Vora Baug, Ghuntu Rd., P.B. 54, Morvi.

Kerala

Modern Plastic Ind., Neerkunnam, Alleppey 688005.

Maharashtra

Apte Plastic Ind., 475-18, Sardar Bazar, Satara Camp. 415001.
Arun Plastics, 74A, Govt. Kandivli Ind. Estate, M. Gandhi Rd., Kandivli West, Bombay 400067.
Blow Plast Pvt. Ltd., Gasthan Rd., Off. Bombay-Agra Rd., Bhandup, Bombay 400078.
Everest Plastic Ind., Cabin 219, Second Fl., 13/21, 3rd Panjrapole Lane, Bombay 400004.
Garware Plastics Pvt. Ltd., 135, Dr. A. Besant Rd., Worli, Bombay 400018.
General Plastics, 8, Tamarind Lane, Bombay 400001.
Indian Plastics Ltd., Poisar Bridge, Ghodbunder Rd., Kandivli, Bombay 400067.
Industrial Tube Container Manufg. Co., C/o Rainbow Products, Ind. Assurance Bldg., Churchgate, Bombay 400020.
Irrawady Bandhu Ind. Corpn., 259, Kalbadevi Rd., Bombay 400002.
Jay Chemicals, 334, Narsi Natha St., Bombay 400002.
Jay Kaushal Plastic Ind. Pvt. Ltd., 31, Sutar Chawl, Bombay 400002.
Kalpana Plastic Ind., 20/3, Hadapsar Ind. Estate, Pune 411013.
Kosmek Plastic Manufg., Ltd., Old B.P.T. Rd., Mahul, Chembur, Bombay 400074.
Model Containers, C/o H. P. Shah & Company, 689, Govind Chowk, M. J. Market, Bombay 400002.
Modern Containers Pvt. Ltd., 94-A, Miramar, 3, Nepean Sea Rd., Bombay 400026.
PVD Plast Mould Ind., 43, Forbes St., Bombay 400001.
Polychnoic Ind., Kalpataru Co-op. Housing Society Ltd., Show No. 6, Plot No. 125, Dixit Rd., Vile Parle (East), Bombay 400057.
Shree Kailash Texplabo Ind. & Agencies Pvt. Ltd., Prabhadevi Ind. Estate, Block No. 14, Cadell Rd., Bombay 400025.
Sunlight Plastic Ind., 324, A to Z Ind. Estate, Fergusson Rd., Lower Parel, Bombay 400013.
Vikas Co-op. Producers Society Ltd., Kachwadi, Govandi, Bombay 400071.
Vinis Products, C-43, 3rd Fl., Royal Optical Ind. Estate, 5-B, Naigam Cross Rd., Wadala, Bombay 400031.
Vinod Plastic Works, 248, 252, A. Rehman St., Bandukwala's Bldg., Bombay 400003.
Warden & Co. Pvt. Ltd., Quay St., Mazagaon, Bombay 400010.

Tamil Nadu

Nirmala Plastic Works, 170/2, S. C. Bose Rd., Madras 600001.
Polyene General Ind., Unit 11A, Ind. Estate, Guindy, Madras 600032.

Uttar Pradesh

Lari Ind., Iqbal Manzil, Near City Station, Lucknow 226001.

West Bengal

Ever Bright Plastic Works, 10/1, Portuguese Church St., Calcutta 700001.
Indar Plastic Works, 56/1, Canning St., Calcutta 700001.
Radheshyam Plastic Ind., 65-A, Nimtollaghat St., Calcutta 700006.

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Indar Plastic Works, 56/1, Canning St., Calcutta 700001.
Maharashtra Plastic Industries, Subhas Nagar, Off Caves Rd., Jogeshwari East, Bombay 400060.
Polymers (I) Pvt. Ltd., 10, Mall Rd., Dum Dum, Calcutta 700028.
Ravish Synthetic Twines & Ropes Pvt. Ltd., B-70, Ind. Estate, Rajajinagar, Bangalore, 560044.

PLASTIC COMPRESSION MOULDING

Delhi

Globe Products (India), 24, Friends Colony, G. Trunk Rd., Shahadara 110032.

Gujarat

Alembic Chemical Works Co. Ltd., Vadodara 390003.
Hemant Bros., Super Market, Ashram Rd., Ahmedabad 380009.
Plastic Products Engg. Co., 'Lavanya', Behind Ahmedabad Medical Association Hall, Ahmedabad 380009.

Haryana

Nuchem Plastics Ltd., 54, Ind. Estate, Faridabad 121001.

Maharashtra

Barakaso Pvt. Ltd., Ishwarbhai Patel Rd., Goregaon East, Bombay 400063.
Baroda General Ind., Ram Baug, S. Vivekanand Rd., Malad, Bombay 400064.

Cipra Bakelite Co., Rout Wadi, Moghul Lane, Mahim, Bombay 400016.

Daylight Plastic Ind., 45, Suryodaya Mills Comp., Tardeo, Bombay 400034.

Ellora Art Ind., Shreejee Bhuvan, Lohar Chawl, Bombay 400002.

Imperial Ind. Co., Opp. Sitaladevi Temple, L. Jamshedji Rd., Mahim, Bombay 400016.

Merchant & Co. Pvt. Ltd., C/o Janata Works Comp., Opp. Phoenix Mills, Tulsi Pipe Rd. (South), Lower Parel, Bombay 400013.

Milan Products, 64-D, Govt. Ind. Estate, Kandivli, Bombay 400067.

P. S. Banarse India Pvt. Ltd., Badnera, Amraoti.

Plastella, 91, S. Vivekanand Rd., Borivli, Bombay 400092.

Podar Plastics Pvt. Ltd., Podar Chambers, Parsee Bazar St., Bombay 400001.

Polymer Products Co., Saki Vihar Lake Rd., Bombay 400072

Polypick Ind., 2nd Fl., Bombay Mutual Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Polyset Corpn., Plot No. A-44-45, M.I.D.C., Marol Ind. Estate, Mahakali Caves Rd., Andheri (East), Bombay 400069.

Priesto Ind., 106, Kansara Chawl, Kalbadevi Rd., Bombay 400002.

Priest-O-Lite, Ghodbunder Rd., Opp. Bandra Bus Garage, Santa Cruz, Bombay 400054.

Sputnik Ind., 30, Tejpal Rd., Vile Parle East, Bombay 400057.

Walchandnagar Ind. Ltd., Construction House, Ballard Estate, Bombay 400001.

Mysore

Associated Trdg. Corpn., 48/4, Sri Jayachamarajendra Rd., Bangalore 560002.

Punjab

Ram Kay Engg. Co. Pvt. Ltd., P.B. 3, Kapurthala 144601.

Tamil Nadu

Plasticraft Ind., Velachery Rd., Madras 600042.

Praga Ind. Pvt. Ltd., Avanashi Rd., Coimbatore 641001.

Sri Lakshmana Plastic Works, 14, Nanjikottai Rd., Thanjavur 613001.

Uttar Pradesh

Plastics Products Ltd., Kamala Tower, Kanpur 208001.

West Bengal

Assam Produce Co. Pvt. Ltd., 4, India Exchange Place, Calcutta 700001.

Eastern Traders (Agencies), 3, Chittaranjan Ave., Calcutta 700013.

Orient Plastic Ind., 12, Portuguese Church St., Calcutta 700001.

Plastics Corpn., 114, Princep St., Calcutta 700013.

Universal Moulders, 4, Canal Rd., New Alipore, Calcutta 700053.

PLASTIC INJECTION MOULDING

Andhra Pradesh

Plastic Engg. Components Pvt. Ltd., D/8-9, Govt. Ind. Estate, Moula Ali, Hyderabad 500040.

Delhi

Aarcee Plastic & Metal Ind. Pvt. Ltd., Flat 21-A, Shanker Market, Connaught Circus, New Delhi 110001.

Dalton Cable Ind. Pvt. Ltd., Dalton House, 24, Daryaganj, Bharatram Rd., Delhi 110006.

Fancy Plastic Moulders, 4998, Mandi Rui, Sadar Bazar, Delhi 110006.

Jewel Plastics, 9986, Sarai Rohilla, New Rohtak Rd., New Delhi.

Universal Advertisers, 4, Jamna Bhawan, Asafali Rd., New Delhi 110001.

Bright Distributors, Swadeshi Market, Sadar Bazar, Delhi 110006.

Gujarat

Hindustan Polythene & Plastic Works, Ind. Area, Wadi Yamuna Mill Rd., Vadodara, 390004.

Kaj Ind., Plastic House, Udyognagar, Udhna.

Ranco Plastics, 'Shrinath Prasad', Takhteswar Plots, Bhavnagar 364001.

Kerala

Anand Water Meter Manufrs. Co., M. Gandhi Rd., Post Box No. 1077, Ernakulam, Cochin 682001.

Common Facility Service Centre, Ind. Estate, Chenganacherry 686104.

Madhya Pradesh

Acrocast, F9, Ind. Estate, Polo Ground, Indore 452003.

Ahuja Ind. Co., G. E. Rd., Opp. D. K. Hospital, Raipur 492001.

Jai Plastic Ind., 4-A, Ind. Estate, Raipur 492001.

Maharashtra

Acme Plastics Ind., Chandivalli Farm, Chandivalli Rd., Bombay 400072.

Amartara Plastics Pvt. Ltd., Saki Vihar Rd., Bombay 400072.

Anand Plastics, 244, Bellasis Rd., Opp. Alexandra Cinema, Bombay 400008.

Anant Shridhar, 7, Lokamanya Nagar, Mahim, Bombay 400016.

Arora Plastics, Prabhadevi Ind. Estate, Unit No. 20, 1st Fl., Vir Savarkar Rd., Bombay 400026.

Ashok Plastics, 67, Ideal Ind. Estate, Mathuradas Mills Comp., Lower Parel, Bombay 400013.

Bata Shoe Co., Pvt. Ltd., Sandak Div., P.B. 84, Thana 400601.

Bharat Swiss Footwear Co. Pvt. Ltd., Merchant Chambers, 41, New Marine Lines, Bombay 400020.

Bien Plastics, Paragon Textile Mills Comp., Globe Mills Passage, Worli, Bombay 400018.

Bombay Brush Co. Pvt. Ltd., 493F, Arthur Rd., Ghaswala Estate, Off Tardeo Circle, Bombay 400034.

Central Plastics, No. 4, Ghodbunder Rd., Indian Crucible Comp., Malad, Bombay 400064.

Come to Corpn., 446, S. V. Patel Rd., Seksaria Bldg., Bombay 400004.

Dwarkadas Dahyabhai Maniar, 71, 3rd Bhoiwada, Bombay 400002.

Emerald Plastics, Mor Bunglow, Tejpal Rd., Bombay 400057.

Everest Plastic Ind., 'Arun', N. Dabholkar Rd., Malabar Hills, Bombay 400006.

Exen Ind., Parekh Nagar, Ghodbunder Rd., Kandivli (B.S.D.), Bombay 400067.

Flexcord Corpn., 266, Dr. A. Besant Rd., M. U. Garage Bldg., Prabhadevi, Bombay 400025.

Formacators, 20, Evergreen Ind. Estate, Dr. E. Moses Rd., 2nd Fl., Mahalakshmi, Bombay 400011.

Ganesh Ind. Pvt. Ltd., Lalji Mansingh Bldg., Lohar Chawl, Bombay 400001.

Gemini Plastic Ind., 3-A, Krishna Udyog Bhuvan, Dhuruwadi, Off Nariman Rd., Near Bengal Chemical, Bombay 400025.

Golden Plastics, 67-69, Bazargate St., Bombay 400001.

Gujarat Ind. Pvt. Ltd., Lalji Mansingh Bldg., Lohar Chawl, Bombay 400002.

Harrison & Co., 23/25, Paradise Lane, L. Jamshedji Rd., Mahim, Bombay 400016.

Hindustan Plastic & Metal Manufg. Co., 40-C, Clerk Rd., Jacob Circle, Bombay 400011.

Hemu Plastics, Unit No. 31, Sona Udyog Estate, Parsi Panchayath Rd., Andheri East, Bombay 400069.

Indian Plastics, 118, Wadala Udyog Bhavan, 8, Naigaum Cross Rd., Wadala, Bombay 400031.

J. L. Morison, Son & Jones (I) Ltd., 79, Dr. A. Besant Rd., Worli, Bombay 400018.

J. T. Chainrai Ind. Pvt. Ltd., 93, Queen's Rd., Bombay 400001.

Jaggy & Co., Bombay Agra Rd., Bhandup, Bombay 400078.

Jaisingh Plastics Ind., 3rd Bhoiwada, Bhuleswar, Bombay 400002.

Jamsar Engg. Works, Laxmi Woollen Mills Estate, Haines Rd., Mahalaxmi, Bombay 400011.

Jaybee Plastic Works, Ebrahim Mansion, 366-68, Kalbadevi Rd., Bombay 400002.

Jayesh Plastics, 112 A-B, Govt. Ind. Estate, Kandivli, Bombay 400067.

Jolly Plastics, 4 & 28, Naigaum Cross Rd., Wadala Udyog Bhavan, Bombay 400031.

Jyoti Plastic & Allied Ind., Plot No. 49, A/B, Govt. Ind. Estate, Bombay 400067.

Khushaldas Dipchand, 30, 2nd Bhoiwada, Bombay 400002.

Kings Plastics, Block No. 7, Devkaran Mansion, 34, Vithaldas Rd., Bombay 400002.

K. K. Nag Pvt. Ltd., 2/362, Bund Garden Rd., Pune 411001.

Krishna Plastics, 139, Nagindas Master Rd., Bombay 400001.

Light Engg. Service, Madhani Estate, 542, Tulsi Pipe Rd., Dadar, Bombay 400028.

M. K. Plastics Ind., 112, Kakad Ind. Estate, Bombay 400016.

Madhusudan Ltd., Plastics Division, Kurla-Andheri Rd., Bombay 400072.

Maniar Art Ind., 31, Interlink Ind. Estate, Caves Rd., Jogeshwari East, Bombay 400060.

Maniar Plastics Ind., 63, 3rd Bhoiwada, Bombay 400002.

Meenul Metallizing Pvt. Ltd., 1076, Haines Rd., Worli, Bombay 400018.

Metro Bangles, 73-D, Govt. Ind. Estate, Kandivli, Bombay 400067.

Mhatre Pen & Plastic Ind. Pvt. Ltd., Tulsi Pipe Rd., Dadar, Bombay 400028.

Motco Plastics, 13-B, Kurla Ind. Estate, Agra Rd., Ghatkopar, Bombay 400077.

Nanavati Plastics Corpn., Divn. of Dynamic Plastic Pvt. Ltd., 91, Tejpal Rd., Vile Parle East, Bombay 400057.

National Plastic Ind., 40, Mirchi Galli, Opp. Jamma Masjid, Bombay 400002.

Overseas Plastics Moulders, Sadhana Ind. Estate, Ossivara Bridge, Jogeshwari, Bombay 400060.

P. S. Plastic Ind., 36, Sarang St., Bombay 400003.

Perfect Plastics, Seksaria Chambers, 139, Medows St., Bombay 400001.

Phiroze Sethana Ind., Royal Insurance Bldg., 14, J. Tata Road, Bombay 400001.

Pla-Age Ind., 30, Carnac Bunder, Bombay 400009.

Plastic & Machine Manufg. Co., 2-3, Interlink Ind. Estate, Caves Rd., Jogeshwari East, Bombay 400060.

Plastica, 94. Vithalwadi, Kalbadevi Rd., Bombay 400002.

Plastic Products, A1 & 2, Nardhan Ind. Estate, M. Maroshi Rd., Andheri East, Bombay 400059.

Plastics Converters, National House, 6 Tulloch Rd., Bombay 400001.

Plastico Ind., 116, Sarang St., Akhokha Bazar, Bombay 400003.

Prabhat Bangle Works, Kakadwadi, Girgaum, Bombay 400004.

Prem Plastics, 301, Bharat Ind. Estate, T. Jivraj Rd., Sewree, Bombay 400015.

Premier Ind. Works, 42, Taikalwadi Lane, Off L. Jamshedji Rd., Mahim, Bombay 400016.

Rainbow Products, Ind. Assurance Bldg., Churchgate, Bombay 400020.

Rajpal Plastics Ind., 303, Neelkanth, 98, Marine Drive, Bombay 400002.

Rockre Corpn., Shivaji Colony, Pereira Hill Rd., Andheri East, Bombay 400069.

Ruby Products, Ashoknagar, Kandivli East, Bombay 400067.

Sakti Vacuum Products, 167, P. D'Mello Rd., Bombay 400001.

Sarvodaya Bangle Works, Sarvodaya Bhuwan, Plot No. 38, 39 & 40, Adarsh Co-op. Society Comp., Marvey Rd., Malad West, Bombay 400064.

Simac Group (I) Pvt. Ltd., Plot No. B-72, Rd. No. 33, W.I. Estate, Thana 400604.

Standard Plastics Co., Udyog Mandir, Kurla Andheri Rd., Bombay 400072.

Subodh Chrome Plastic, 371, Raviwar Peth, Pune 411002.

Supreme Ind. Ltd., Sewree Cross Rd., Wadala, Bombay 400031.

Sunderdas Nemidas, 233-B, A. Rehman St., Bombay 400003.

Swastik Ind., Ram Baug, Ghodbunder Rd., Malad, Bombay 400064.

Thakkar Ind. (I), 144, Dharavi Rd., Bombay 400017.

Trinity Plastics, 238, Nagdevi St., Bombay 400003.

United Enterprises, 340/341, A to Z Ind. Estate, Fergusson Rd., Bombay 400013.

V. K. Engg. & Plastics Ind., Western India House, Sir P. Mehta Rd., Bombay 400001.

Vijay Bakelite Trdg. Co., 8, Chakla St., Bombay 400003.

Vijay Bangle Works, 78-A, Ind. Estate, Charkop, Kandivli, Bombay 400067.

Vinal Ind., 23, Sidhpura Ind. Estate, S. Vivekanand Rd., Goregaon, Bombay 400062.

Mysore

Karnatak Bangle Works, 4/3, Platform Rd., Seshadripuram, Bangalore 560020.

Kaveri Plastic Pvt. Ltd., Morzaria Ind. Estate, Unit F, Shed No. 2, 4, Bannerghatta Rd., Bangalore 560029.
Precision Engineers, Duravaninagar, Bangalore 560016.
Quality Metal Works, Keshavapura, Hubli 580023.

Orissa

Orissa Plastics, P.O. Balasore 756001.

Tamil Nadu

Bhupendra Plastic Ind., 20, Singara Garden Third Rd., Washermanpet, Madras, 600021.
Govel Plastics Pvt. Ltd., 5/9, Veerabhadraier St., Nungambakkam, Madras 600034.
Indian Polythene Ind., 17, Pamanan Rd., Madras 600001.
Lakmur Plastics, Homeo House, Kumbakonam 612001.
Needle Ind. India Ltd., Ketti, The Nilgiris.
Pnemidar Equipments & Agencies, 5/5, Headquarters Rd., Coimbatore 641001.
U.M.S. Radio Factory, Avanashi Rd., Coimbatore 641018.

Uttar Pradesh

Bihani Ind., 9, Lowther Rd., Darbhanga Colony, Allahabad 211001.

West Bengal

Hind Plastic Works Pvt. Ltd., 16, Pageyputty St., Calcutta 700001.
Mahabir Plastic Ind., 6, Canal Rd., New Alipore, Calcutta 700033.
Pioneer Plastic Works Pvt. Ltd., 9, Ezra St., Calcutta 700001.
Pradip Plastic Moulders, 12-B, Rabindra Sarani, North Block, Calcutta 700001.
Synthetic Moulders Ltd., 43, N. Subash Rd., Calcutta 700001.
Western Plastics Co., 9, Gurusaday Rd., Calcutta 700019.

PLASTIC EXTRUSION

Andhra Pradesh

Hyderabad Polithyelene Ind., 5/4/383, Mukramjani Rd., Hyderabad 500001.
Indian Detonators Ltd., Sanatnagar, P.O. Hyderabad 500018.

Gujarat

Dentron Plastic Ind., Gujarat Laghu Udyog Vikas Mandal, C/o Shamapur Gate, Ahmedabad 380001.
D. R. Industries, Swaminarayan, Godown, Outside Dariapur Gate, Ahmedabad 380001.
Hindustan Polythene & Plastic Works, Yamuna Mill Rd., Vadodara 390004.
Modern Plastics Corpn., 4/4488, Begampura, Surat 395001.
Monalax Plastics, Sabbir House, Near Hajoori Soda Factory, Salabalgoura, Surat 395002.
Sackfil Corpn. of India, 24, Nadiad Ind. Area, Nadiad, 387001.
Unick Plastics Ind., Plot No. 2/A/2/3, Udhna Ind. Estate, Udhna, Surat Dist.

Kerala

Kumar Ind., Sree Devi, Kottumukku, Quilon 691001.
Phoenix Plastics, Kottayam 686001.

Maharashtra

Airoplast Private Ltd., C/40, 'Y' Rd., Wagle Ind. Estate, Thana 400604.
Ashok Plastics Ind., Ind. Estate, Shed No. 12, Dhulia 424001.
Atom Plast, "Bhavna", 422, V. Savarkar Rd., Bombay 400025.
Bombay Synthetic Corpn., Govt. Ind. Estate, Plot No. 81, Kandivli West, Bombay 400067.
Chemo Plastics, 14, 'Sailesh', 59/75, Forjet St., Bombay 400026.
Crown Plastic Ind., Aghadi Ind. Estate, M. Maroshi Rd., Andheri, Bombay 400059.
Dhoot Chemo Plast Pvt. Ltd., Kranti Chowk, Aurangabad 431001.
Drossbach, Maneklal Pvt. Ltd., Vaswani Mansions, D. Vachha Rd., Bombay 400020.
Eagle Enterprises Pvt. Ltd., 141, S. Dewjee St., Bombay 400003.
Everest Enterprises, 226, Kalbadevi Rd., Bombay 400002.
Everest Plastic Ind., 13/21, 3rd Panjrapole Lane, Bombay 400004.
F. Block Agencies Pvt. Ltd., Shale Bldg., Bank St., Bombay 400001.
Fivevex Plastic Ind., Marathe Kolsawadi, Kalyan, Thana Dist.
Ganesh Ind., 32/34, 1st Marine St., Bombay 400002.
Glosso Pack Ind., Kolak Nivas, Dhawadi, Thakurdwar, Bombay 400002.
Great India Plastics, I.B. Patel's Estate, I. Patel Rd., Goregaon East, Bombay 400062.
Jay-Kee Plastics, C/o Kakad Ind. Estate, Block Nos. 1 & 71, Bhandari Galli (East), L. Jamshedji Rd., Mahim, Bombay 400016.
Khetan Plastics, P.B. 25, Akola 444001.
Maharashtra Plastic Ind., 312, Kalbadevi Rd., Bombay 400002.
M. B. Ind. Pvt. Ltd., S. Vivekanand Rd., Villa Mira, Post Ghodbunder, Thana Dist.
Modern Waterproof Manufg. Co., 109, Masjid Bunder Rd., Bombay 400003.
New Pack Ind., Mirabele Hotel, Lotus House, Bombay 400001.
Nova Plast Ind. Pvt. Ltd., Shree Laxmi Silk Mills Premises, Kasturchand Mill Compound, M. C. Javla Rd., Dadar, Bombay 400028.
Nylo Plast Ind. Pvt. Ltd., Nyloc House, 254-D2, Dr. A. Besant Rd., Prabhadevi, Bombay 400025.
Plasticable Pvt. Ltd., Lentin Chambers, 36, Dalal St., Bombay 400001.
Plastic Extrusion Products, M.I.D.C. Ind. Estate, Plot No. 16/17, II Cross Rd., J. B. Nagar, Andheri East, Bombay 400059.
Plastics Estruders Pvt. Ltd., National Insurance Bldg., Dr. D. Naoroji Rd., Bombay 400001.
Plastoflex Ind., 46, Nagdevi St., Bombay 400003.
Plasto-Pack Ind., 5-B, Suryodaya Mills Comp., Tardeo, Bombay 400034.
Polymers & Resins Corpn., 46, V. Nariman Rd., Opp Akbarally's, Bombay 400001.
Precision Engg. & Sales Corpn., Mahalaxmi Ind. Estate, Block 12-A, Drainage Channel Rd., Parel, Bombay 400013.
Ramdas Plastic Manufg. Co. Pvt. Ltd., 111/128, Sadhu Vaswani Nagar, Ganeshkhind Rd., Pune 411007.
Ranbhare Plastic Ind., C/o 9, Parishram, Dr. Gandhi Rd., Parsi Colony, Dadar, Bombay 400014.

Rarun Plastics, 23-B, Raja Bahadur Mansion, Hamam St., Bombay 400001.

Samip Packaging Ind., 10, Milan, Dixit Rd., Vile Parle East, Bombay 400057.

Sohal Plastics, Sohal Ind. Estate, Agra Rd., Bhandup, Bombay 400078.

Sylvex Cable Company Pvt. Ltd., Behind India Cork Mills, Saki-Vihar Rd., Bombay 400070.

Thermo-Plastic Ind., 78, Kalachowki Rd., Lalbaug, Bombay 400033.

Vishal Plastic Ind., 6, Mirza St., Bombay 400003.

Mysore

D. M. Industries, Morzaria Ind. Estate, 4, Banarghatta Rd., Bangalore 560029.

F. Fibre Corpn., A-83, Ind. Estate, Rajajinagar, Bangalore 560010.

Jambo Plastics Pvt. Ltd., M. S. Ramaiah College Comp., Gokul, Bangalore 560012.

Multiplat Ind. Corpn., P.B. 10, Hospet 583201.

Pal's Ind. Corpn., Lake View, Karkala, South Kanara.

Sree Prakash Plastic Ind., Krishnarajendra Rd., P.B. 66, Devangere 577001.

Vinayak Ind. Corpn., 11-655, Bhavanthi St., Mangalore 575001.

Polytech International, P.O. Dhenkanal.

Tamil Nadu

Devon Plastics, Dhun Bldg., 175/1, Mount Rd., Madras 600002.

Paper, Film & Foil Converters, P.B. 6, Sivakasi, Ramnad Dist. 623501.

Uttar Pradesh

Garg Plastics, 47/86, Hatia, Kanpur 208001.

West Bengal

Extrusion, 243, Chittaranjan Ave. 700012.

India Burlap & Laminating Works, 8, Lyons Range, Calcutta 700001.

Polyfabs Ltd., 2, Pretoria St., Calcutta 700016.

Transpacker's, Flat No. 401, 'Niharika', 17/1C, Alipore Rd., Calcutta 700027.

PLASTIC FABRICATION

Maharashtra

Amalgamated Apparels, 28/29, Ideal Ind. Estate, Mathuradas Mills Compound, Delisle Rd., Lower Parel, Bombay 400013.

Amar Plastic Ind., 43, Queen's Rd., Bombay 400002.

Artec Products, 2/2, Dwarkanath Bhuvan, Katrak Rd., Wadala, Bombay 400031.

Bombay Plastic Corpn., Elphinstone Bldg., 10, Churchgate St., Bombay 400001.

Deepak Knitting Works, Bombay Cotton Mills Estate, Parel Tank Rd., Bombay 400033.

Jagdhir Desai & Co., 13, Gunbow St., Bombay 400001.

Jyoti Plastic Works, Bombay Talkies Comp., Bemansu Rd., Malad West, Bombay 400064.

Marf & Co., 362, V. Patel Rd., Bombay 400004.

Noble Plastic Works, 22, N. Shenoy Rd., Bombay 400001.

Oriental Manufg. Co., 94, 3rd Bhoiwada, Bombay 400002.

Plasticraft Corpn., B. Vastu Rd., Vile Parle West, Bombay 400056.

Podar Plastics Pvt. Ltd., Podar Chambers, Parsee Bazar St., Bombay 400001.

Prabhat Bangle Works, Kakadwadi, Girgaum, Bombay 400004.

Premier Leather Krafts, 35-37, Hamam St., Opp. Hamam House, Bombay 400001.

Sanghvi Non-ferrous Metal Ind., 159/2, Akurdi, Chinchwad, Pune 411019.

Vasa Optical Ind., Ind. Estate, Sangli 416416.

Venus Prints, 22-D, Parsi Bazar St., Bombay 400001.

PLASTIC LAMINATION

Gujarat

Melamine & Fibre Boards Ltd., Dr. Ambedkar Rd., Kalol 382721.

Visnagar Taluka Audyogic Sahakari Mandali Ltd., Visnagar.

Madhya Pradesh

Lamina Ind. Pvt. Ltd., 21, Ind. Estate, Polo ground, Indore 452001.

Maharashtra

ABC Leminart Pvt. Ltd., 324, Arun Chambers, Tardeo Rd., Bombay 400034.

Caprihans (I.) Pvt. Ltd., Block 'D', Shivsagar Estate, Dr. A. Besant Rd., Bombay 400018.

Formica India Ltd., P.B. 64, Pune 411001.

Gurjargravunes Pvt. Ltd., 38, C. Patel St., Bombay 400001.

Industrial Fabrics Pvt. Ltd., 95, A. Rehman St., Bombay 400003.

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Telex : 011-3169
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New Delhi, Calcutta, Madras and Bangalore.

Plasticage Corpn., 101, Mithal Estate, Andheri Kurla Rd., Bombay 400059.
Svadeshi Mill Co. Ltd., Bombay House, Bruce St., Bombay 400001.

PLASTIC MACHINERY

Alfred Herbert India Ltd., Gulati Mansion, 4/10, A. Al· Rd., New Delhi 110001.
Apraulic Engrs. Pvt. Ltd., 12, Tankiwala Ind. Estate, Maroshi Rd., Bombay 400059.
Boolani Engg. Corpn., Prabhadevi Ind. Estate, 402 V. Savarkar Marg, Bombay 400025.
Brimco Plastic Machinery Corpn., 55, Govt. Ind. Estate, Charkop, Kandivli West, Bombay 400067.
Engel India Machines & Tools Ltd., 1, Taratala Rd., Calcutta 700053.
Kolsite Ind., Meher Tiles Comp., Off Caves Rd., Jogeshwari East, Bombay 400060.
Kril Standard Products Pvt. Ltd., 506, Sir Vithaldas Chambers, 16, Apollo St., Bombay 400001.
Novel Engrs. Pvt. Ltd., Sambava Chambers, Sir P. Mehta Rd., Bombay 400001.
R. H. Windsor (India) Ltd., Plot E-6, U Rd., Thana Ind. Estate, Thana 400604.
Remica Plastic Machinery Manufrs., Dudheshwar Rd., Ahmedabad 380001.
S.L.M. Maneklal Ind. Ltd., Vatva, Taluka Dascroi, Ahmedabad.
Universal Mechanical Works Pvt. Ltd., off Ferguson Rd., opp B.D.D. Chawl No. 114, Bombay 400018.

POLYTHENE FILM

Andhra Pradesh

Sanathnagar Polythene Ind., 15-6-490, Kamalkhan Devdi, Begum Bazar, Hyderabad 500012.

Delhi

Rexco Ind. (Ind.), Expo Plastics, G-35, Gulabi Bagh, Delhi 110007.

Gujarat

D. R. Industries, Swaminarayan Godown, Outside Dariapur Gate, Ahmedabad 380001.

Maharashtra

Glosso Pack Ind., Kotak Nivas, Dhas Wadi, Thakurdwar, Bombay 400002.
India Fibre Bag Manufg. Co., Mithal Estate, M. Visanji Rd., Andheri East, Bombay 400059.
Marvel Ind. Corpn., Block No. 118, Kakad Ind. Estate, Mahim, Bombay 400016.
Modern Packagings, 201, Kalbadevi Rd., Bombay 400002.
Pearl Plastics, Laxmi Bldg., Ballard Rd., Bombay 400001.
Plastic Processors, Interlink Ind. Estate, Jogeshwari East, Bombay 400060.
Polymer Corpn., Kansara Chawl, Kalbadevi Rd., Bombay 400002.
Pratibha Plastic Ind., 18/A-2, Bombay Poona Rd., Pune 411003.
Shree Plastics, Happy-Colony, Kothrud, Pune 411029.
United Plastics Corpn., 162, Tulsi Pipe Rd., Lower Parel, Bombay 400013.

Mysore

Metro Polythene Manufrs., 35/5, Kalikadevi Rd., Devangere City 577001.
Mysore Plastic Industries, Mahaveer Rd., Bijapur 586101.

West Bengal

Alkali & Chemical Corpn. of India Ltd., H.O. 18, Strand Rd., Calcutta 700001.
Extrusions, 243, Chittaranjan Ave., Calcutta 700006.
General Extruders, Room No. 31, 128, Hazara Rd., Calcutta 700026.
Orissa Plastics, Room No. 134, 40, Strand Rd., Calcutta 700001.
Plasto Craft Ind., 4, Synagogue St., Calcutta 700001.
Polymers (India) Pvt. Ltd., 10, Mall Rd., Dum Dum, Calcutta 700028.
Shree Uma Textile & Ind., 196, Jamunalal Bajaj St., Calcutta 700007.

PLASTIC (FOUNTAIN/BALL POINT) PENS

Delhi

Hindustan Plastic Corpn., 923, Faiz Rd., Karol Bagh, New Delhi 110005.

Maharashtra

Asian Art Ind., 30, Govt. Ind. Estate, Kandivli West, Bombay 400067.
Lion Pencils Pvt. Ltd., 95, Marine Drive, Bombay 400002.
Pankaj Pen Ind., I. B. Patel Rd., Goregaon East, Bombay 400063.
Premier Products, Anuj Plastic New Bldg., Near Patel Estate, G. B. Rd., P.O. Dahisar, Bombay 400068.
Triplex Products, Agarwal Estate, 139G, S. Vivekanand Rd., Jogeshwari West, Bombay 400060.
Watmull Ind. Pvt. Ltd., Del Star, 9-9A, Hughes Rd., Bombay 400026.

Tamil Nadu

Pilot Pen Co. (I) Pvt. Ltd., 6, Armenian St., Madras 600001.

PLASTIC LEATHER CLOTH

Delhi

Neo Poly Pack Pvt. Ltd., E-2, Greater Kailash-I, New Delhi 110048.

Maharashtra

Billion Plastics Pvt. Ltd., 101, Himalaya House, Palton Rd., Bombay 400001.
Caprihans (India) Pvt. Ltd., Block-D, Shivsagar Estate, Dr. A. Besant Rd., Worli, Bombay 400018.
Dharampur Leather Cloth Co. Pvt. Ltd., 10, Chowpatty Sea Face, Opp. Tilak Statue, Bombay 400007.
Ellora Ind., 15, Tulsi Niwas, 61D Rd., Churchgate, Bombay 400001.
Jasmine Mills Pvt. Ltd., Dharavi, Bombay 400017.
Jyoti Ind., Udyognagar, S. Vivekanand Rd., Goregaon West, Bombay 400062.
Mamaji Ind. Corpn., Sir E. Rahimtulla Rd., Bombay 400002.
National Leather Cloth Manufg. Co., Ram Krupa Bldg., 25, Parekh St., Bombay 400004.
Polytex Ind, 5, Kurla Ind. Estate, L. B. Shastri Rd., Ghatkopar, Bombay 400086.
Radhakrishna Ramnarain Pvt., Ltd., State Bank Bldg., Bank St., Bombay 400001.

Mysore

Varma Ind. Ltd., Dombur Rd., P.O. HAL, Bangalore 560017.

West Bengal

East India Rubber Works Pvt. Ltd., 161, Chittaranjan Ave., Calcutta 700007.

P.V.C. CABLES & FLEXIBLES

Andhra Pradesh

Radiant Engg. Co., Sanatnagar, Hyderabad 500018.

Delhi

Elite Cable Manufg. Co., 38 E, Kamla Nagar, Delhi 110007.

Moti Electrical Ind. Pvt. Ltd., 15-A, Najafgarh Rd., New Delhi 110015.

Gujarat

Slydex Ind., B-3, B-4, Real Estate Co., Near Nagerwal Hanuman, Rakhial Rd., Ahmedabad 380023.

Maharashtra

Billion Plastic Pvt. Ltd., 101, Himalaya House, Palton Rd., Bombay 400001.

Cable Corpn. of India Ltd, Laxmi Bldg., 6, Ballard Rd., Ballard Estate, Bombay 400001.

Plastic Extrusion Products, 16/17, Marol Ind. Area, M.I.D.C., Bombay 400093.

PLASTIC TOOTH BRUSHES

Delhi

Sarosh Corpn. (Ind.), 23F, Nizamuddin West, New Delhi 110013.

Maharashtra

Aryan Brush Co. Ltd., Lentin Chambers, Dalal St., Bombay 400001.

S. K. Brush Products, Acropolis, Colaba, Bombay 400005.

Vita Pvt. Ltd., Laxmi Woollen Mills Estate, Haines Rd., South, Mahalaxmi, Bombay 400011.

P.F. MOULDING POWDER/RESINS

Maharashtra

Bakelite Hylam Ltd., Ticcicon House, 18, Dr. E. Moses Rd., Bombay 400011.

Rawji Amarsi, 414A, Jolly Bhavan, 10, New Marine Lines, Bombay 400020.

The Industrial Plastics Corpn. Pvt. Ltd., 14, Hamam St., Raja Bhadur Mansion, Bombay 400001.

POLYSTYRENE

Maharashtra

Hindustan Polymers Ltd., C/o Shri Ram Mills Ltd., Fergusson Rd., Bombay 400013.

PLASTIC FOAM

Andhra Pradesh

U. Foam Pvt. Ltd., 815 & 16, Ind. Estate, Sanatnagar, Hyderabad 500018.

Maharashtra

Artbangle Pvt. Ltd., 204, National Insurance Bldg., Dr. D. Naoroji Rd., Bombay 400001.

BASF Ind. Ltd., Tiecicon House, Dr. E. Moses Rd., Bombay 400011.

PLASTIC RAW MATERIAL SUPPLIERS

(MOULDING POWDER OR SHEETS, RODS & TUBES OR CHEMICALS)

Gujarat

Cibatul Ltd., Atul, Valsad Dist. 396001.

Suhrid Geigy Ltd., P.B. 48, Wadi Wadi, Vadodara 390005.

Synthetics & Polymer Ind., S-2, Bapunagar, Ind. Estate, Ahmedabad 380023.

Haryana

Acropolymers Pvt. Ltd., Khandsa Rd., Gurgaon 122001.

Crystic Resins India Pvt. Ltd., 54, Ind. Area, Faridabad 121001.

Maharashtra

Allied Traders (Ind.), 169, Masjid Bunder Rd., Bombay 400003.

Ambica Impex Agencies, Parvati Nivas, Daulat Nagar, Rd., No. 7, Borivli, Bombay 400092.

Amritlal & Co. Pvt. Ltd., Rang Udyan, Sitladevi Temple Rd., Mahim, Bombay 400016.

Atul Drug House Ltd., Beldota Bhuvan, 117, M. Karve Rd., Bombay 400020.

Bakolite Hylam Ltd., Tiecicon, 18, Dr. E. Moses Rd., Bombay 400011.

Bayer (I.) Ltd., Express Towers, Nariman Point, Bombay 400020.

Bombay Leather Goods Depot, 14, Chippi Chawl, Bombay 400002.

Chowgule & Co. (Hind), Pvt. Ltd., India House, Fort, St., Bombay 400001.

Chika Ltd., 13, Mathew Rd., Bombay 400004.

Ciba of India Ltd., Royal Insurance Bldg., 14, J. Tata Rd., Bombay 400020.

Dr. Bock & Co. (Ind.) Ltd., Bombay-Poona Rd., Pimpri Pune 411017.

Fino Plast Sales Corpn., 21, Moti Mahal, Mathew Rd., Bombay 400004.

General Pigment & Chemical Products Pvt. Ltd., Vihar Lake Rd., Saki Naka, Bombay 400072.

H. R. Traders, 24, 2nd Fopalwadi, Bhuleswar, Bombay 400002.

Harshadray Pvt. Ltd., Jiji House, Reveline St., Bombay 400001.

Herdillia Chemicals Ltd., Air India Bldg., V. Nariman Rd., Bombay 400020.

Hoechst Dyes & Chemicals Ltd., Parekh Mahal, V. Nariman Rd., Bombay 400020.

H. S. Sobha Singh & Sons, 16/18, Manu Mansion, Old Customs House Yard, Bombay 400001.

India Carbon Ltd., Shivsagar Estate, Dr. A. Besant Rd., Worli, Bombay 400018.

Indian Plastics & Chemicals Pvt. Ltd., 9, Wallace St., Bombay 400001.

Indofil Chemicals Ltd., Belvandi House, Dr. A. Besant Rd., Worli, Bombay 400025.

L. B. Ltd., 79, Apollo St., Bombay 400001.

Mettur Beardsel Ltd., 15/16, Sir P. Mehta Rd., Bombay 400001.

Mitter & Co., Mapla Bldgs. 187-A, A. Rehman St., Bombay 400003.

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Dr. A. Zielfelder, Technical Managing Director.

Monsanto Chemicals of India Pvt. Ltd., Wakefield House, Sprott Rd., Ballard Estate, Bombay 400001.

National Organic Chemical Ind. Ltd., Sandoz House, Dr. A. Besant Rd., Worli, Bombay 400018.

Plastichemicals Co., Mahalakshmi Chambers, B. Desai Rd., Bombay 400026.

Plastipeel Chemicals Corpn., Kripalani Estate, Saki Vihar Rd., Bombay 400072.

Plastics Sales Corpn., 39, Kakad Industrial Estate, Off L. Jamshedji Rd., Mahim, Bombay 400016.

Polychem Ltd., 7, J. Tata Rd., Churchgate Recl., Bombay 400020.

Polyolefins Ind. Ltd., Neville House, Currimbhoy Rd., Ballard Estate, Bombay 400001.

Sanghavi Brothers, Rahmat Bldg., 52, A. Rehman St., Bombay 400003.

Shantilal Doshi Pvt. Ltd., 1/F, Fazalbhoy House, Behind Metro Cinema, 10, Barrack Rd., Bombay 400001.

T. T. Krishnamachari & Co., Vulcan Insurance Bldg., 202-A, V. Nariman Rd., Churchgate Recl., Bombay 400020.

Union Carbide India Ltd., Ind. Products Division, 15, Mathew Rd., Bombay 400004.

Vasantrai & Co., Anand Bhuvan, Princess St., Bombay 400002.

Mysore

Mysore Polymers, Shed No. E/10, 11 & 12, Ind. Estate, Ramanagaram, Bangalore Dist.

West Bengal

Allies Resins & Chemicals Ltd., 10/1, Elgin Rd., Calcutta 700020.

East Anglia Plastics (India) Ltd., 3, Camac St., Calcutta 700016.

Waldies Ltd., A-1, Gillander House, N. Subash Rd., Calcutta 700001.

P.V.C. RESINS & COMPOSITIONS

Delhi

Shriram Chemical Ind., Naaz Bldg., 1, Jhandewalan Estate, New Delhi 110055.

Maharashtra

Ahmedabad Manufg. & Calico Printing Co., Ltd., Calico Mills, Chemical Division, Anik-Chembur, Bombay 400074.

Plastic Resins & Chemicals Ltd., Bharat Insurance Bldg., 15-A, Horniman Circle, Bombay 400001.

Tamil Nadu

Chemicals & Plastics India, Ltd., Dhun Bldg., 175/1, Mount Rd., Madras 600002.

PLASTIC ELECTRICAL ACCESSORIES

Delhi

Rexco Ind. (India), Expo Plastics, G-35, Gulabi Bagh, Delhi 110007.

Maharashtra

Automats Engineers, T. K. Ind. Estate, King Edward Rd., Bombay 400015.

Merchant & Co. Pvt. Ltd., 162, Tulsi Pipe Rd. South, Lower Parel, Bombay 400013.

Standard Batteries Ltd., Vakola, Santa Cruz, Bombay 400055.

PLASTIC MACHINERY & MOULDS

Gujarat

Bakubhai Ambalal Pvt. Ltd., Bank of India Bldg., Bhadra, Ahmedabad 380001.

Hinet Brothers, Ind. Estate Corner, Bapunagar, Ahmedabad 380023.

Maharashtra

Boolani Engg. Corpn., Prabhadevi Ind. Estate, 402, V. Savarkar Rd., Bombay 400025.

Eastern Sales Corpn., Unique House, 25, Parsee Bazar St., Bombay 400001.

Kalimata Plastic Ind., 205, Wadala Udyog Bhuvan, Naigaum Cross Rd., Wadala, Bombay 400031.

Kolsite Ind., Mehertiles Comp., Subhas Nagar, Off Caves Rd., Jogeshwari East, Bombay 400060.

Kril Standard Products Pvt. Ltd., Prabhadevi Ind. Estate, Block No. 8, 402, V. Savarkar Marg, Bombay 400025.

Niranjan Plastics, 19/7, Botawala Bldg., S.D.T. Rd., Bombay 400016.

Plastic Engg. Corpn., 14-A, Sainath Ind. Estate No. 2, Near Kolkar Estate, Off Aarey Rd., Goregaon East, Bombay 400063.

Sheth & Sheth Ind., Janmabhoomi Chambers, Fort St., Ballard Estate, Bombay 400001.

Solar Machines Pvt. Ltd., 22-D, Parsee Bazar St., Bombay 400001.

R. H. Windsor (Ind.) Ltd., Plot E.C.U. Rd., Wagle Ind. Estate, Thana 400604.

West Bengal

Engle India Machines & Tools Ltd., 6, Old Post Office St., Calcutta 700001.

PLASTIC SPECTACLE FRAMES

Madhya Pradesh

Vijay Plastics Pvt. Ltd., Ind. Area, Govindpura, Bhopal 462001.

Maharashtra

Montex Corpn., Yusuf Bldg., M. Gandhi Rd., Bombay 400001.

PLASTIC PRESENTATION NOVELTIES

Delhi

Chanson Plastic Manufg. Co., 1/13, West Patel Nagar, New Delhi 110008.

Gujarat

Tofr-O-Plast, 20, R. C. Patel Ind. Estate, Akota Rd., Vadodara, 390005.

Maharashtra

Bharat Pen & Plastic Ind., 66-B, Ruby Mill Lane, Dadar, Bombay 400028.
Bright Brothers Pvt. Ltd., 156-A, J. Dadajee Rd., Bombay 400034.
Chhogmal Plastic Enterprise, 63, 3rd Bhoiwada, Bombay 400002.
Hemu Plastics, Unit No. 31, Sona Udyog Estate, Parsi Panchayath Rd., Andheri East, Bombay 400069.
S. L. Trading Co., 236A, Maulana Azad Rd., Bombay 400008.

Mysore

Paxal Corpn., No. 13, Sri Krishnarajendra Rd., Fort, Bangalore 560002.
Tip-top Plastic Ind., 124, Kallai Rd., Balepet, Bangalore 560002.

West Bengal

Asian Tool & Plastic Co., 1/4-C, Khagendra Chatterjee Rd., Calcutta 700002.
Industrial Trading Agency, 27-B, Chittaranjan Avenue, Calcutta 700013.
Orissa Plastics, Room No. 134, 40, Strand Rd., Calcutta 700001.

PLASTIC SHEET METALISED

Gujarat

Chemicoat Ltd., Kalab Rd., P. O. Atladra, Vadodara 390001.
Vac Met Corpn., Pvt. Ltd., Damodar Udyog Kendra, Udhna Udyog Nagar, Udhna, Surat Dist.

PLASTICISERS

Maharashtra

Alta Laboratories Pvt. Ltd., Alta Bhavan, 532, Senapati Bapat Marg, Dadar, Bombay 400028.
Indo-Nippon Chemical Co. Ltd., Alice Bldg., Dr. D. Naoroji Rd., Bombay 400001.

CELLULOSE ACETATE

Mysore

Mysore Acetate & Chemicals Co. Ltd., Sri J. Wadiyar Rd., Bangalore 560002.

West Bengal

East Anglia Plastics (Ind.) Ltd., 3, Camac St., Calcutta 700016.

SUPPLIERS OF PLASTIC GOODS

Delhi

Plastic House, 255, Ballimaran St., Delhi 110006.
S. Mohd. Suabheen & Co., 824, Ballimaran St., Delhi 110006.

Gujarat

Anjna Ind. Corpn., Bharat Bobbins Premises, Opp., Ajit Mills Ltd., Rukhial Rd., Ahmedabad 380023.
Bharat Plastic & Bakelite Ind. Ltd., Krishnagar Housing Rd., Near G. D. High School, Saijpur Bogha, Ahmedabad 380002.
Parag Plastics Ind. Pvt. Ltd., 80, Makarapura Ind. Estate, P.B. No. 199, Vadodara 390009.

Orissa

Sibco Ind. Pvt. Ltd., C-11, Ind. Estate, Cuttack 753003.

Tamil Nadu

Deluxe Plastics Products, 6B, N. M. Mudaliar Rd., Madras 600029.
Electro Plastic Combination, 65, N. M. Mudaliar Rd., Madras 600029.
Plastic Glass Enterprises, 15, Tatabad, 9th St., P.O. Tatabad, Coimbatore 611012.

West Bengal

Climax Plastic Udyog, 11, Pullock St., Calcutta 700001.
Delton Steel & Metal Ind., P-2, Dalimtola Lane, Calcutta 700006.
Emco Gen. Ind., 44A, R. A. Kidwai Rd., Calcutta 700016.
High Volt Equipment Pvt. Ltd., Premier House, P-39, Mission Row Extn., Calcutta 700013.
Indar Plastic Works, 56/1, Canning St., Calcutta 700001.
Monoplast Co., 60/2, Dharamtolla St., Calcutta 700013.
Peerless Plastics Ind. Pvt. Ltd., 4, Upper Chitpur Rd., Calcutta 700007.
Plastics Enterprises, 38, Strand Rd., Calcutta 700001.
Plasto (Ind.) Pvt. Ltd., Patipukur, Dum Dum (South), Calcutta 700055.
Polymers (India) Pvt. Ltd., 10, Mall Rd., Dum Dum, Calcutta 700028.
Ratan Plastics Pvt. Ltd., 43/1, Strand Rd., Calcutta 700007.
Synthetic Moulders Ltd., 16, N. Subash Rd., Calcutta 700001.
Techno Rubber & Plastic Works, 14, Chandni Chowk St., Calcutta 700001.

VACUUM FORMING

Maharashtra

Vacuum Forming Co., 3/21, Prabhadevi Ind. Estate, 402, Cadell Rd., Bombay 400025.

PLASTIC FOOTWEAR

Delhi

Avon Footwear Ind. Pvt. Ltd., C-575 Defence Colony, New Delhi 110003.

Bharat Ind. Corpn., 15, West Patel Nagar, New Delhi 110008.

Goel Plastics Pvt. Ltd., 2, Ind. Area, Kirti Nagar, New Delhi 110015.

Mohan Enterprises, 1, Ind. Area, Tilak Nagar, Najafgarh Rd., New Delhi 110018.

Saco Rubbers Pvt. Ltd., A-3, Kirti Nagar, Najafgarh Rd., New Delhi 110015.

SVIK (India), A-36, Lajpat Nagar II, Link Rd., New Delhi 110024.

Gujarat

Mobela Corpn., G. S. Fozdar's Bungalow, Near Sanjivani Hospital, New Sharda Mandir Rd., Ellis Bridge, Ahmedabad 380007.

Maharashtra

Aruna Enterprises, Flat No. 306, 'E' Block, Simla House, Napean Sea Rd., Bombay 400006.

Bharat Cottage Ind., 60 C.D. Govt. Ind. Estate, Kandivli West, Bombay 400067.

Bharat Swiss Footwear Co. Pvt. Ltd., Merchant Chamber, 41, New Marine Lines, Bombay 400020.

Bien Plastics, Paragon Textile Mills Comp., Globe Mills Passage, Bombay 400013.

Blow Plast Pvt. Ltd., L. B. Shastri Marg, Bhandup, Bombay 400078.

Carona Sahu Co. Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.

Chowdhary Enterprises, 203 A to Z Ind. Estate, Fergusson Rd., Lower Parel, Bombay 400013.

Gandhi Ind., Devkaran Mansion, 63, S. Gandhi Marg, Bombay 400002.

Mercantile Plastics Pvt. Ltd., 38, Nandanvan Ind. Estate, Agra Rd., Mulund, Bombay 400080.

Metro Bangles, 73-D, Kandivli Ind. Estate, Kandivli, Bombay 400067.

Nanda Footwear Pvt. Ltd., Merchant Chambers, 41, New Marine Lines, Bombay 400020.

National Celluloid Products, 60, C.D. Govt. Ind. Estate, Kandivli West, Bombay 400067.

Pilky Footwear Co., Pvt. Ltd., Churchgate Chambers, New Marine Lines, Bombay 400020.

Racy Plastic Shapers, 3A, Sidhpura Ind. Estate, Masrani Lane, Kurla, Bombay 400070.

Swastik Rubber Products Ltd., Swastik House, Behind Kirkee Rly. Stn., Pune 411003.

Universal Footwear Pvt. Ltd., 93, Queen's Rd., Bombay 400020.

Vijay Bangle Works, 78/A Ind. Estate, Charkop, Kandivli (West), Bombay 400067.

Uttar Pradesh

Foreign Exporters & Manufrs., A/3, Ind. Estate, Loni Rd., No. 2, Opp. Mohan Nagar, Ghaziabad 201001.

Supreme Plastics Pvt. Ltd., 7, Anand Ind. Estate, P.O. Mohan Nagar, Ghaziabad 201001.

POLYTHENE BAGS

Andhra Pradesh

Sanathnagar Polythene Ind., 15/6/490, Kamalkhan Devdi, Begum Bazar, Hyderabad 500012.

Delhi

Chanson Plastic Manufg. Co., 1/13, West Patel Nagar, New Delhi 110008.

Hindustan Plastic Corpn., 923, Faiz Rd., Karol Bagh, New Delhi 110005.

New Poly Pack Pvt. Ltd., E2, Greater Kailash I, New Delhi 110048

Rexco Industries (I.) Ltd., Expo Plastics, G-35, Gulabi Bagh, Delhi 110007.

Gujarat

Elite Plastic Co., 12A, Bharatkhand Cotton Mills Compound, Naroda Rd., Ahmedabad 380001.

Hindustan Polythene & Plastic Works, Ind. Area, Wadi Yamuna Mill Rd., Vadodara 390004.

Parag Plastic Industries Pvt. Ltd., 80, Makarpura Ind. Estate, P.B. No. 199, Vadodara 390001.

Sanghi Plastic Industries, 14, P.A. Ind. Estate, Sukharam Nagar, Ahmedabad 380001.

Maharashtra

Maharashtra Plastic Industries, Subhas Nagar Off. Caves Rd., Jogeshwari East, Bombay 400060.

Ravi Corpn., 44, C. P. Tank Rd., Bombay 400004.

S. L. Trading Co., 236A., Maulana Azad Rd., Bombay 400008.

Mysore

Askon Pvt. Ltd., M. S. Ramaiah Ind. Estate, Jalahalli Rd., Bangalore 560012.

Paxal Corpn., No. 13, Sri Krishnarajendra Rd., Fort, Bangalore, 560002.

Tiptop Plastic Industries, 124, Kilari Rd., Balepet, Bangalore, 560002.

Tamil Nadu

New Paramount Industries, 28, Buddi Sahib St., Madras 600001.

West Bengal

Bengal Polythene Bag Co., 55, Canning St. (Mehta Bldg.), Block E, Calcutta 700001.

General Extruders, Room No. 31, 128, Hazra Rd., Calcutta 700026.

Indar Plastic Works, 56/1, Canning St., Calcutta 700001.

Lite Engg. Industries, 19, Pullock St., Calcutta 700001.

Orissa Plastics, Room No. 13A, 40, Strand Rd., Calcutta 700001.

Plasto Craft Industries, 4, Synagogue St., Calcutta 700001.

Polymers India Pvt. Ltd., 10, Mall Rd., Dum Dum, Calcutta 700028.

Shree Uma Textile & Industries, 196, Jamunalal Bajaj St., Calcutta 700007.

PUMPS

Andhra Pradesh

Sri Ram Engg. Co., Opp. Synthetic Drugs Project, Kakatpalli, Hyderabad 500037.

Delhi

DGL Pvt. Ltd., 14/M, Block, Connaught Circus, New Delhi 110001.

Flowmore Pvt. Ltd., K-40, Connaught Circus, New Delhi 110001.

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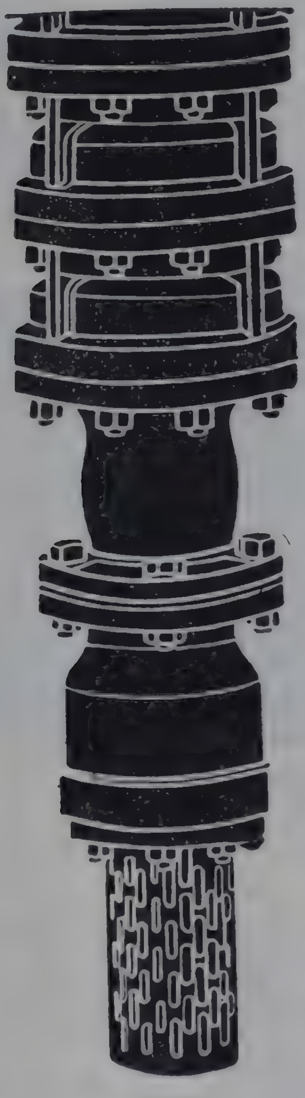

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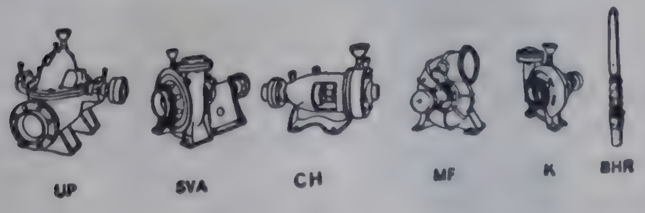

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Gautam Electric Motors Pvt. Ltd., 42,Okhla Ind. Estate, New Delhi 110020.

T.M.C. Vogel Ind. Pvt. Ltd., 4E/8, Jhandewalan Ext., New Delhi 110055.

Gujarat

Economy Engg. Co., Block No. 7-2, Ruvapari Rd., Bhavnagar 364001.

Forge & Blower Co., Naroda Rd., Ahmedabad 380002.

Gajjar Steel Ind., Opp. Ramji Mandir Maninagar, Ahmedabad 380008.

Jyoti Ltd. P.O. Chemical Ind. Vadodara 390003.

L.M.P. Precision Engg. Co. Pvt. Ltd., Mahadev Nagar, Bilimora 396321.

Navalram Agro-Machineries Pvt. Ltd., Near Kalyan Mill, Naroda Rd., Ahmedabad 380002.

Shree Engrs. & Founders, Varachha Rd., Surat 395003.

Maharashtra

Airanto Engg. Co., 38, Gala Ind. Estate, Mulund (West), Bombay 400080.

Akay Ind., Shiv Sagar Est., Block 'A', Dr. A. Besant Rd., Worli, Bombay 400018.

Bhangar Bros. & Co. Pvt. Ltd., 142/48, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Bharat Bijlee Ltd., Udyognagar, Near King's Circle Station, Bombay 400022.

Calama Ind. Pvt. Ltd., Canada Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Cooper Engg. Ltd., Satara 415001.

Dorr-Oliver India Ltd., 16, M. Karve Marg, Bombay 400001.

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Delta Corpn., Udyog Bhavan, Naigaum Cross Rd., Bombay 400031.

Florite Engg. Corpn., 162, Tulsi Pipe Rd., Opp. Phoenix Mills, Lower Parel, Bombay 400013.

International Instruments, 15, Samrat Silk Mills Estate, Bombay 400001.

K.S.B. Pumps Ltd., 173, J. Tata Rd., Bombay 400001.

Kirloskar Bros. Ltd., Udyog Bhavan, Tilak Rd., Pune 411001.

Kishor Pumps Pvt. Ltd., A 13/H, Block, Pimpri Ind. Area, Pimpri, Pune 411001.

Larsen & Toubro Ltd., L.T. House, Ballard Estate, Bombay 400001.

Mather & Platt Ltd., Hamilton House, 8, Graham Rd., Ballard Estate, Bombay 400001.

Mercantile & Ind. Dev. Co. Pvt. Ltd., Metro Estate, S. B. Barve Marg (W), Kalina, Bombay 400029.

Modi Industries (J.C.) Pvt. Ltd., 62, B. Shankar Rd., Dadar, Bombay 400028.

New Vijay Ind. Ltd., P.O. Wellington College, Vishrambagh, Sangli 416416.

Packco Engg. Pvt. Ltd., Block 2, Shivaji Udyan Nagar, Kolhapur 416001.

Rohini Engg. Works Pvt. Ltd., Ind. Estate, Miraj 416410.

Ruston & Hornsby (I) Ltd., Chinchwad, Pune 411001.

Shivaji Works Ltd., Shivashahi, Sholapur Dist.

Shukla-Manseta Ind. Pvt. Ltd., 8, Hamam St., Bombay 400001.

Sigil (I) Services Pvt. Ltd., Ismail Bldg., 381, Dr. D. Naoroji Rd., Bombay 400001.

Tahira Ind. (I) Pvt. Ltd., 19/21, Manihardas St., Opp. G.P.O., Bombay 400001.

Vickers Sperry of India Ltd., Akurli Rd., Kandivli, Bombay 400067.

Rajasthan

Pump Manufg. Corpn, Opp. M.I. Rd., Jaipur 302001.

Tamil Nadu

Balasubramania Foundry, 166, Patel Rd., Coimbatore 641009.

Best & Co. Pvt. Ltd., 13/15, North Beach Rd., Madras 600001.

Bharat Foundry, 13, Amman Kulam Rd., Pappanaickenpalayam, Coimbatore 641018.

Chandra Foundries Pvt. Ltd., 55, Basin Bridge Rd., Madras 600021

Dhandayuthapani Foundry Pvt. Ltd., 2/1, Pappanaickenpalayam, Coimbatore 641018.

Eastern Electrical Co. Pvt. Ltd., 26/22, Aerodrome Rd., Singanallur, Coimbatore 641005.

Eltex Engg. Corpn. Pvt. Ltd., P.O. Ganapathy, Coimbatore 641006.

General Engg. Co., Mettupalayam Rd., Coimbatore 641011.

IAEC Pumps Ltd., Near Villivakkam Rly. Stn., Rajamangalam, Madras 600049.

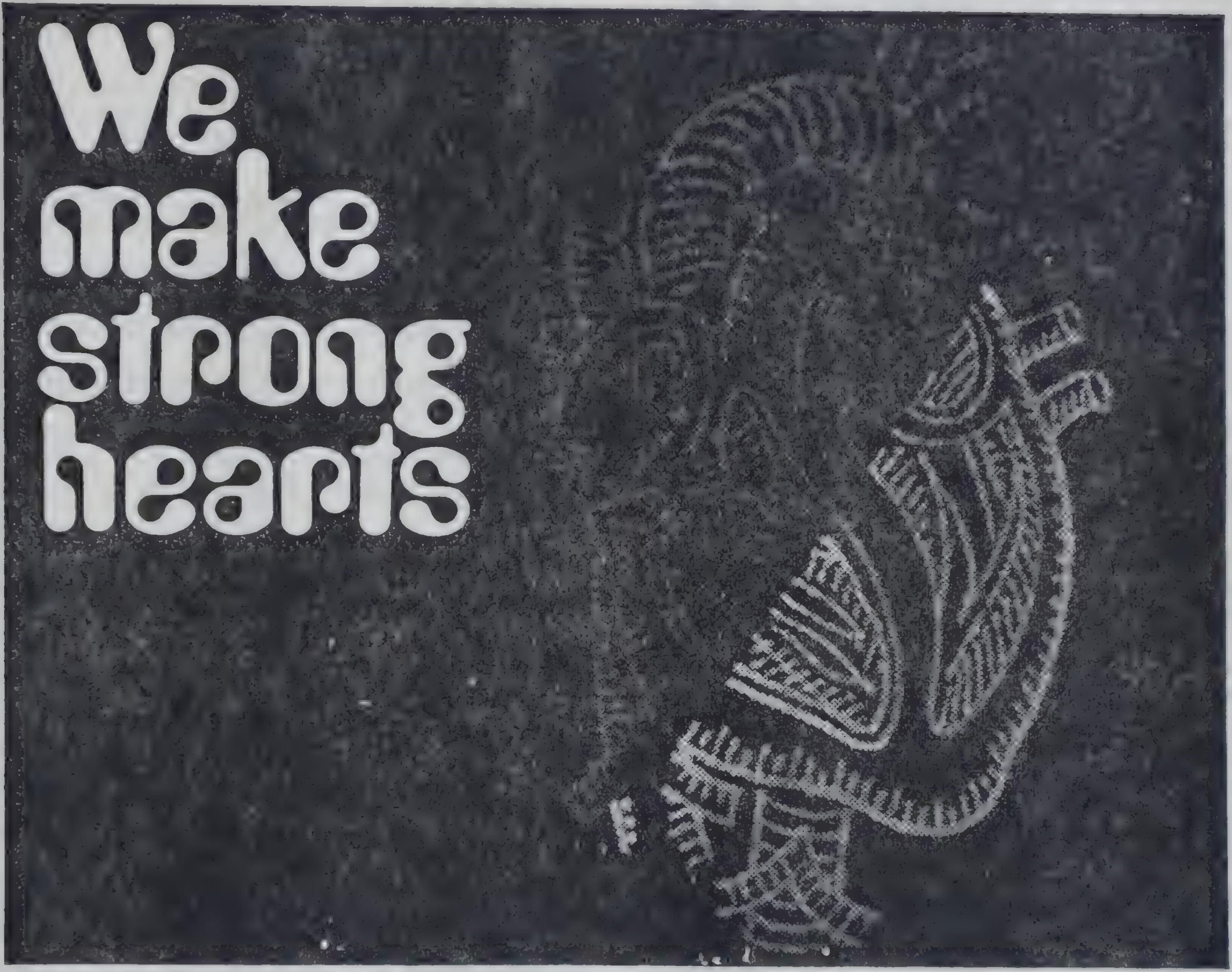
Kala Ind. Pvt. Ltd., Mettupalayam Rd., P.O. Tudiyallur Coimbatore 641011.

P. G. Industrial Institute, Pedamedu, Coimbatore 641004.

Prakash Engg. Co., Mettupalayam Rd., Saibaba Mission Post, Coimbatore 641011

Premier Ind., Trichy Rd., Coimbatore 641005.

Raja Foundry, Ammankulam Rd. Pappanaickenpalayanm, Coimbatore 641018.



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Bensons-4906

Ramu Foundry, 353, Avanashi Rd., Coimbatore 641018.

Southern Engg. Ind., 343, Avanashi Rd., Pappanaickenpalayam, Coimbatore 641018.

Subbiah Foundry, Avanashi Rd., Pappanaickenpalayam, Coimbatore 641018.

T. R. Ind., Kuniamuthur, Coimbatore 641008.

Texmo Ind., P.O. Ganambiga Mills, Coimbatore 641011.

Uttar Pradesh

Delta Engg. Co. Pvt. Ltd., Chipi Tank, Meerut 250001.

West Bengal

Bengal Iron Works Pvt. Ltd., 16/2, Chatterjee Para Lane, Howrah 711101.

British Electrical & Pumps Pvt. Ltd., 4, Dalhousie Sq., Calcutta 700001.

Electric Construction & Equipment Co. Ltd., 27/B. Camac St., Calcutta 700001.

Garden Reach Workshops Ltd., 43/46, Garden Reach, Calcutta 700024.

General Electric Co. of India Ltd., 6, Chittaranjan Ave., Calcutta 700013.

IMC-Vogal Ind. Pvt. Ltd., 10/1, Princep St., Calcutta 700013.

Johnston Pumps India Ltd., 2, Fairlie Place, Calcutta 700001.

Mining & Allied Machinery Corpn. Ltd., Durgapur.

Roger Engg. Works, 23A, N. Subash Rd., Calcutta 700001.

Varat Pumps & Machinery Pvt. Ltd., 20, N. Subash Rd., Calcutta 700001.

RAILWAY COACHES, WAGONS AND MATERIALS

Bihar

Tata Engg. & Locomotive Co. Ltd., Jamshedpur 831001.

Delhi

Greysham & Co., 7249, Roop Nagar, Delhi 110007.

Madhya Pradesh

Gwalior Engg. Works, Lashkar, Gwalior 474001.

K. T. Steel Ind. Pvt. Ltd., 'Chattan', No. 9, Altamount Rd., Bombay 400026.

Marian Engg. Co., 7/10, Botawala Bldg., Horniman Circle, Bombay 400001.

McKenzies Ltd., Sewree, Bombay 400015.

Mysore

Bharat Earth Movers Ltd., HAL Estate, Bangalore 560017.

Rajasthan

Cimmco Wagon Factory, Bharatpur 321001.

Tamil Nadu

Binny's Engg. Ltd., Meenambakkam, Madras 600027.

Integral Coach Factory, Perampur, Madras 600038.

Southern Structurals Ltd., Avadi, Madras 600054.

Uttar Pradesh

Modern Industries, Sahibabad, Ghaziabad 201001.

West Bengal

Bird & Co. Ltd., Chartered Bank Bldg., Calcutta 700001.

Braithwhite & Co. (I) Ltd., Clive Works, 3, Hide Rd., Kidderpore, Calcutta 700043.

Brocho & Co. Pvt. Ltd., 36, Weston St., Calcutta 700013.

Burn & Co., Howrah Iron Works, Howrah 711101.

D. C. Dhiman & Bros. Ltd., 22, G. T. Rd., Howrah 711101.

Gresham & Craven of India Pvt. Ltd., 22, Gobra Rd., Entally, Calcutta 700014.

Hindusthan Iron & Steel Co., 8, R. Deb Rd., Calcutta 700007.

Indian Standard Wagon Co., Ltd., Burnpur, Burdwan Dist.

Jessop & Co Ltd., 63, N. Subash Rd., Calcutta 700001.

Machines & Tools Entrepot, 2, Brabourne Rd., Calcutta 700001.

Marcandy Prasad Radhakrishna Prasad Pvt. Ltd., 65, G. T. Rd., Salkia, Howrah 711106.

National Ind. Impex Corpn., 35, Stephen House, Calcutta 700001.

Pelican Engg. Corpn. Pvt. Ltd., 36, Strand Rd., Calcutta 700001.

Railway Supply Corpn. Pvt. Ltd., 10, Ganeshchandra Ave., Calcutta 700013.

Shree Hanuman Foundry & Engg. Co. Ltd., 46, Strand Rd., Calcutta 700001.

Strand Engg. Corpn., P. 50, Princep St., Calcutta 700013.

REFRACTORY MAKERS

Andhra Pradesh

Dr. V. S. Krishna Ceramics & Potteries, Rajamundry 533101.

Bihar

Harish Tara Refractories, Lake Ave., Kanke Rd., Ranchi 834001.

India Firebricks & Insulation Co. Ltd., P.O. Marar, Hazaribagh 825301.

Jaiswal Ceramic Ind., Lalpur, S.E. Rly., Ranchi 834001.

Jharia Firebricks & Refractory Works Pvt. Ltd., P.O. Dhansar, Dhanbad 826001.

Kumerjuri Firebricks Works, P.B. No. 32, P.O. Katrasgarh, Dhanbad 826001.

Naveen Ind., Mugma, Dhanbad 826001.

Delhi

Amar Nath Bhaskar Sons, P.O. Ishwar Nagar, New Delhi 110001.

Dalmia Ceramic Ind., 4, Scindia House, Connaught Place, New Delhi 110001.

Durga Enterprises Pvt. Ltd., 10, Daryaganj, Delhi 110006.

Ishwar Ind. Ltd., P.O. Ishwar Nagar, New Delhi 110001.

Orissa Cement Ltd., 4, Scindia House, Connaught Place, New Delhi 110001.

S. N. Sunderson & Co., 1, D. Gupta Rd., New Delhi 110055.

Gujarat

Narendra Ceramics Pvt. Ltd., National Highway Rd., Wankaner.

Parshuram Pottery Works Ltd., Morvi 363641.

Maharashtra

Associated Cement Cos. Ltd., Cement House, 121, M. Karve Rd., Bombay 400020.

Sharad Refractory Works, Khorshed Bldg., Sir P. Mehta Rd., Bombay 400001.

Tamil Nadu

Carborundum Universal Ltd., 11/12, North Beach Rd., Madras 600001.

Dalmia International, 29, Ind. Estate, Ambattur, Madras 600058.

Dalmia Magnesite Corpn., P.B. No. 508, Salem 636005.

Salem Magnesite Pvt. Ltd., Panorama, Hasthimpatti Extension, Salem 636005.

West Bengal

Assam Sillimanite Ltd., P4, Oil Installation Rd., Calcutta 700023.

Balsukh Refractories & Ceramics Ltd., 137, Cotton St., Calcutta 700007.

Behar Firebricks & Potteries Ltd., 22, Strand Rd., Calcutta 700001.

Behar Potteries, 2, Doyal Some Lane, Calcutta 700006.

Belpahar Refractories Ltd., 43, Chowringhee Rd., Calcutta 700016.

Bengal Bihar Firebricks & Pottery Works Pvt. Ltd., 26, Burtalla St., Calcutta 700007.

Bengal Refractories Ltd., 32A, Dharmtolla St., Calcutta 700013.

Bharat Firebricks & Pottery Works Pvt. Ltd., 33, Canning St., Calcutta 700001.

Burn & Co. Ltd., 12, Mission Rd., Calcutta 700001.

Harry Refractory & Ceramic Works Pvt. Ltd., Harry House, 640, Rabindra Sarani, Calcutta 700003.

Hind Refractories Ltd., 135, B. R. B. Basu Rd., Calcutta 700001.

Hindustan Refractories & Ceramics Pvt. Ltd., 20, N. Subash Rd., Calcutta 700001.

India Refractories, Industry House, 10, Camac St., Calcutta 700001.

Jauhar Firebricks & Refractory Works Pvt. Ltd., 29, Waterloo St., Calcutta 700001.

Kharkharee Firebricks Works, 91, Stephen House, Dalhousie Sq. East, Calcutta 700001.

Kumardhubi Fireclay & Silica Works Ltd., Chartered Bank Bldgs., Calcutta 700001.

Kumar Manufg. Co., Howrah Ind. Estate, P.O. Baltikuri, Howrah 711101.

Maithan Ceramics Pvt. Ltd., 36/2, Vivekananda Rd., Calcutta 700007.

Nagrath Firebricks & Potteries Pvt. Ltd., Gandhi House, 16, G. Chandra Ave., Calcutta 700013.

New Bharat Refractories Ltd., 66, G. T. Rd., P.O. Lilluah, Howrah 711101.

Orissa Ind. Ltd., 9, Ezra St., Calcutta 700001.

Reliance Firebricks & Pottery Co. Ltd., 11-12, Esplanade Mansion, Calcutta 700001.

RUBBER PRODUCTS (MISCELLANEOUS)

Andhra Pradesh

Andhra Rubber Ind., 5-3-1048, Nizamshahi Rd., Hyderabad 500001.

Deccan Enterprises Pvt. Ltd., 8570-A, R. P. Road, Secunderabad 500003.

Foam Rubber Factory, Ind. Estate, Chandulal Baradari, Hyderabad 500002.

Sutlej Rubber Ind., 21-1-153, Kikabgunj, Hyderabad 500002.

U-Foam Pvt. Ltd., B-15, Ind. Estate, Sanatnagar, Hyderabad 500018.

Delhi

Ajanta Rubber & Plastic Ind., 4, DLF Ind. Area, Najafgarh Rd., New Delhi 110015.

B. N. Rubber Works, 9, Barakhamba Rd., New Delhi 110001.

Bharat Rubber Ind., 8382, Roshanara Rd., Delhi 110007.

Brickley Engg. Pvt. Ltd., 1590, Daribakalan, Delhi 110006.

Davis & White India Pvt. Ltd., 2A/3, A. Ali Rd., Delhi 110001.

Mercury Rubber Mills, 2/7, D. B. Gupta Rd., New Delhi 110001.

Phoenix India Rubber Products, 10184, Arya Samaj Rd., Karol Bagh, New Delhi 110005.

Sawhney Rubber Ind., 616, Loni Rd., Delhi 110032.

Shree Bharati Udyog Pvt. Ltd., 43, Indra Palace, Connaught Place, New Delhi 110001.

Universal Technical & Commercial Enterprises, P. O. Box 7818, New Delhi 110023

Gujarat

Atika Rubber Mills Pvt. Ltd., G. K. Rd., Rajkot 360001.

Grill Ltd., Rakhial Rd., Ahmedabad 380021.

Gooduse Rubber Products, Raipur Gate, Kankaria Rd., Ahmedabad 380001.

Gujarat Rubber Works Ltd., Dabhoi Rd., Pratapnagar, Vadodara 390004.

Kirti Rubber Ind., 17, R. C. Patel Ind. Estate, Vadodara 390001.

Lathia Ind. Supplies Co. Pvt. Ltd., 108, Naroda Ind. Estate, Naroda, Ahmedabad 380001.

MSM Universal Tyre & Rubber Co. Gujarat Ltd., B.M.C. Bank Bldg., Gandhi Rd., Ahmedabad 380001.

National Ind., 8/64, Municipal Ind. Estate, Bapunagar, Ahmedabad 380023.

Simplex Rubber Products Pvt. Ltd., Amraiwadi Rd., Ahmedabad 380008.

Vikas Rubber India, Pandit Nehru Marg, Jamnagar 361001.

Haryana

Asia Rubber Mills, Railway Rd., Gurgaon 122001.

Ferry Rubber Works Pvt. Ltd., Daulatabad, Gurgaon. 122001.

Latex India Pvt. Ltd., 20/2, Milestone, Mathura Rd., Ballabhgarh 121004.

Kerala

Allied Rubber Works Pvt. Ltd., Karapuzha, Kottayam 686001.

Associated Fibre and Rubber Ind. Pvt. Ltd., Kilibar House, Cochin 682001.

Kerala Rubber & Plastic Ind., Lakshmi Bldg., Kottayam 686001.

N. C. John & Sons Pvt. Ltd., W 22/189, Alleppey 685001.

Navabharata Enterprises Pvt. Ltd., Box No. 54, Cochin 682003.

Nenmany Rubber & Produce Co. Ltd., Ancheri Bldg., Baker Rd., Kottayam 686001.

Ruby Rubber Works Ltd., 7/460, Oyitty Rd., Calicut 673001.

Stanes Tyre & Rubber Products Ltd., Nagampadam, Kottayam 686001.

Maharashtra

Auto Steel Ind., C-2-1 Technicians Block, Bhosari Ind. Estate, Pune 411026.

Bombay Latex and Dispersions Pvt. Ltd., Western India House, Sir P. Mehta Rd., Bombay 400001.

Century Rubber & Cable Ind., Sainath Ind. Estate, Kotkar Rd., Goregaon East, Bombay 400063.

Electrical Components Co., Jee Mansions, 5, New Queens Rd., Bombay 400004.

Greentose Pvt. Ltd., 24, Dalal St., Bombay 400001.

India Rubber Products, Kasturchand Mills Estate, Dadar, Bombay 400028.

Industrial Rubber Products Pvt. Ltd., Raghu Vinashwadi, Bombay 400018.

Jai Hind Rubber Products Pvt. Ltd., 391-F, Grant Rd., Bombay 400007.

Kirti Rubber Works, 205, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Modak Rubber Products Pvt. Ltd., Kondivitta Village Rd., Bombay 400059.

Nilambur Rubber Works, 52, Shri Krishna Niwas, New Silk Bazar, Kalbadevi Rd., Bombay 400002.

Nirmal Rubber & Board Pvt. Ltd., 1-B, Patel Estate, Bombay 400062.

Perfect Oil Seals & Industrial Rubber Products, 84, Bhosari Ind. Area, Pune 411026.

Picon Pvt. Ltd., 30, Nesbit Rd., Mazagaon, Bombay 400010.

Rubber Products Pvt. Ltd., C-44, Wagle Ind. Estate, Thana 400604.

Supreme Ind. Ltd., Sewri Cross Rd., Wadala, Bombay 400015.

Mysore

Amco Batteries Ltd., Mysore Rd., Bangalore 560076.

Bangalore Rubber Ind., C-26, Rajajinagar Ind. Estate, Bangalore 560010.

Punjab

Ashok Rubber Works, Ind. Area, Jullundur 144001.

Basant Rubber Ind., Shalimar Garden Rd., Kapurthala 144601.

Ralson Ind., 810, Ind. Area, Ludhiana 141001.

Universal Rubber Ind., Shalimar Garden Rd., Kapurthala 144601.

Rajasthan

Agarwal Rubber & Plastic Ind., 20-C, Ind. Estate, Shri Ganganagar 335001.

Rajasthan Rubber Ind., C-37, Ind. Estate, Jaipur 302006.

Tamil Nadu

Automobile Rubber Products Pvt. Ltd., G-8, Ind. Estate, Madras 600058.

M. M. Rubber Co. Pvt. Ltd., 150B, Mount Rd., Madras 600002.

Madras Polymer Ind., 5A/147, Mount Rd., Madras 600006.

Shakthi Rubber Works, 1, Swaminaicken St., Madras 600002.

Uttar Pradesh

Bharat Rubber Ind., 83, Rajnagar, Ghaziabad 201001.

East India Rubber Works Pvt. Ltd., 7a, La Touche Rd., Kanpur 208001.

Goodluck Rubber & Allied Ind., D-9, Govt. Ind. Estate, Lucknow 226001.

Star Rubber Pvt. Ltd., A-4, Ind. Estate, Meerut 250001.

West Bengal

Ajanta Valves & Rubber Ind., 11, Pollock St., Calcutta 700001.

Alexander Pvt. Ltd., 26, Strand Rd., Calcutta 700001.

Bengal Waterproof Works (1940) Ltd., 41, Shakespeare Sarani, Calcutta 700017.

Bhattacharya Rubber Works (1964) Pvt. Ltd., 174, Jessore Rd., Dum Dum, Calcutta 700055.

Crown Rubber Ind., 3, Saklat Place, Calcutta 700013.

D. Wren & Co., Wardley House, 25, Swallow Lane, Calcutta 700001.

Everest Rubber Works, 171A, M. Gandhi Rd., Calcutta 700007.

M. S. Rubber Co., 81A, Manicktala St., Calcutta 700006.

Oriental Electric & Engg. Co., 1, Old Court House Corner, Calcutta 700001.

Paul & Dutta Enterprises, 114, J. Mohan Ave,, Calcutta 700005.

Rubber Products & Moulding Co., 9, A. Bechulal Rd., Calcutta 700046.

S. G. R. Ind. Pvt. Ltd., 10, The Mall, Dum Dum, Calcutta 700028.

Service Rubber Mills, P-36, India Exchange Place, Calcutta 700001.

Synthetics & Chemicals Ltd., 2, Brabourne Rd., Calcutta 700001.

Cellular Rubber & Latex Foam

Agra Leather Board Pvt. Ltd., 5, Ind. Estate, Agra 282001.

British India Corpn. Ltd., 20-B, Tangra Rd., Calcutta 700001.

Dunlop Rubber Ltd., 57-B, Free School St., Calcutta 700001.

Fibre Foam Rubber Ind., Chungom, Alleppey 688001.

Koolfoam Pvt. Ltd., Kottayam 686001.

Modern Rubber Manufg. Pvt. Ltd., Lindsay St., Calcutta 700001.

Ruby Rubber Works Ltd., Rubynagar, Changanacherry 686101.

Swastik Rubber Works Ltd., Kirkee, Pune 411003.

U. Foam Pvt. Ltd., 16, Ind. Estate, Hyderabad 500018.

Cycle Tyres & Tubes

Bedrock Tyre & Rubber Co., 16, Bruce St., Bombay 400001.

Bharat Casements Pvt. Ltd., P. O. Box 89, Vadodara 390001.

Cosmos India Rubber Works Ltd., 7, Homji St., Bombay 400001.

Dunlop India Ltd., 57-B, Free School St., Calcutta 700001.

Goodyear India Ltd., Ballabhgarh, Haryana.

R. B. S. Jain Rubber Mills Pvt. Ltd., Lillooah, Howrah 711101.

Rockhard Tyre & Rubber Ind., 73, Ind. Estate, Indore 452001.

Super Tyres Pvt. Ltd., 74, Najafgarh Rd., New Delhi 110015.

Gloves

Dharampur Leather Cloth Co. Pvt. Ltd., 10, Chowpatty Sea Face, Bombay 400007.

Helix Latex Products, C-11-6, Model Town, Delhi 110009.

Kale Rubber Works Pvt. Ltd., Dalvi Rd., Kandivli, Bombay 400067.

Kinner & Co., 7, Lalji Dayal Trusts Bldg., Khetwadi, 11th Lane, Bombay 400004.
Neo Foam Rubber Ind., Perur Rd., Coimbatore 641010.
Trivandrum Rubber Works Ltd., Trivandrum 695001.

Hoses

Basant Rubber Factory Pvt. Ltd., Basant Court, opp. Sion Rly. Stn., Bombay 400022.
Bharat Rubber Ind. Pvt. Ltd., 17, P. Garden Lane, Calcutta 700001.
Cosmos India Rubber Works Ltd., 7, Homji St., Bombay 400001.
Dominion Rubber Co. Pvt. Ltd., 1, Kundan Lane, Howrah 711101.
Indian Rubber Manufrs. Ltd., 11, Esplanade Mansions, Calcutta 700001.
Imperial Tyre & Rubber Co. Pvt. Ltd., Agra Rd., Bombay 400079.
Kadar Rubber Manufg. Co. Pvt. Ltd., 92, Narkeldanga Main Rd., Calcutta 700016.
Pioneer Rubber Mills Ltd., Agra Rd., Bombay 400078.
Teksons Pvt. Ltd., Modi Chambers, French Bridge, Bombay 400004.

Medical & Surgical Products

Adarsh Rubber Ind., 1182, Azadnagar, Amritsar 143001.
Aroskar Rubber Works, Dixit Rd., Vile Parle, Bombay 400057.
Enkay India Rubber Co., 156-D, Kamla Nagar, Delhi 110007.
Helix Latex Ind., C-11-6, Model Town, Delhi 110009.

Oilseals

A-Kor Seals, 24, Okhla Ind. Estate, New Delhi 110020.
Alpha Tyres India Ltd., 324, Model Town, Ambala 133001.
American Rubber Manufg. Co., 40, Strand Rd., Calcutta 700001.
Bedi Ind. Corpn. (Regd.), 116, D. B. Gupta Market, New Delhi 110005.
Bombay Oilseals Co., opp. Sanghani Estate, Kachrapatti Rd., Bombay 400086.
Cypher Engg. Co., 19/AB, Nandanvan Ind. Estate, Agra Rd., Thana, Bombay 400604.
Dikson & Co., 8, Bharat House, 104, Apollo St., Bombay 400001.
Gasket Corpn. of India, 7/10, Botawala Bldg., H. Circle, Bombay 400001.
Gasket & Oil Seals Pvt. Ltd., P. O. Box 89, Vadodara 390001.
India Auto Ind., Patel Motor Market, K. Gate, Delhi 110006.
India Oil Seals & Synthetic Products, N-36, India Exchange Place, Calcutta 700001.
Modern Engg. & Rubber Products, 85, N. Subash Rd., Calcutta 700001.
Mykado Auto Ind., (Regd.), 2, Krishna Motor Market, K. Gate, Delhi 110006.
Super Seals India Pvt. Ltd., 21, A. Nizammuddin West, New Delhi 110013.
Supreme Washers Pvt. Ltd., Sukh Sagar, Hughes Rd., Bombay 400007.
Usha Rubber Works, 36, Ezra St., Calcutta 700001.
Universal Oil Seals Manufg. Co., 17, Sidhpur Ind. Estate, Masrani Lane, Bombay 400070.
Universal Moulders & Engrs., P-36, India Exchange Place, Calcutta 700001.
Victor Gaskets India Ltd., L. B. Shastri Marg, Bombay 400050.

Rubber Aprons

Bengal Waterproof Works (1940) Ltd., Panihali, 24-Parganas Dist.
Elastica Rubber Works, Naroda Rd., Ahmedabad 380001.
Fenner Cockill Ltd., Pandyan, Madurai 625001.
Inarco Ltd., 12, A. Foreshore Rd., Bombay 400001.
Krishna Rubber & Engg. Works, Navrangpura, Ahmedabad 380009.
Nanco Rubber & Plastics, P. Box 243, Coimbatore 641001.
Swastic Rubber Products Ltd., Kirkee, Pune 411003.
Union Rubber Co., 55, G. Patters Rd., Madras 600002.

Rubber Blankets

Lathia Rubber Manufg. Co. Pvt. Ltd., Saki Naka, Bombay 400072.
T. Maneklal Manufg. Co. Ltd., Saki Naka, Bombay 400072.

Rubber Flooring Tiles

East India Rubber Works Pvt. Ltd., Stork Rd., Howrah 711101.
Hindustan Rubber Works Ltd., Ballygunj Stn. Rd., Calcutta 700019.
Simplex Rubber Products Ltd., Amraiwadi, Ahmedabad 380008.

Rubber Footwear

Ahuja Rubber Works, N. Rohtak Rd., New Delhi 110005.
Asian Rubber & Plastic Ind., Kashmir Rd., Amritsar 143001.
Associated Rubber Ind. Ltd., Bhavnagar 364001.
Bata Shoe Co. Pvt. Ltd., 30, Shakespeare Sarani, Calcutta 700017.
Bhattacharya Rubber Works Pvt. Ltd., Jessore Rd., Calcutta 700055.
British India Corpn. Ltd., Sutherland House, Kanpur 208001.
Carona Sahu Co. Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.
Enkay India Rubber Co., 156-D, Kamala Nagar, Delhi 110007.
Grover Rubber Ind. Pvt. Ltd., Kottayam 686001.
Lotus Rubber Ind., Marve Rd., Malad, Bombay 400064.
Oriental Rubber Works Ltd., 171-A, M. Gandhi Rd., Calcutta 700007.
Subash Rubber Works Pvt. Ltd., Jain Nagar, Meerut 250002.

Rubber Lining

Akron Rubber Ind., 134, Old Hanuman Lane, Bombay 400002.
Emmes Metals Pvt. Ltd., 147, Govt. Ind. Estate, Kandivli, Bombay 400067.
Poly Rubber Ind., Patanwala Estate, Ghatkopar, Bombay 400077.
Shree Jay Bharat Rubber Ind., Ramnagar, Ahmedabad 380005.
South India Rubber Works, Calcutta 700046.

Rubber Rollers

Akron Rubber Ind., 134, Old Hanuman Lane, Bombay 400002.

Basant Rubber Factory Ltd., Basant Court, opp. Sion Rly. Stn., Bombay 400022.
Bengal Belting Works Ltd., Mahesh, Hooghly Dist.
Bengal Waterproof Works (1940) Ltd., Panihati, 24-Parganas Dist.
Bombay Rubber Works Pvt. Ltd., Saki-Vihar Rd., Powai Point, Bombay 400072.
Gujarat Rubber Works Ltd., Pratapnagar, Vadodara 390005.
Inarco Ltd., 1-A, Foreshore Rd., Bombay 400001.
Industrial Linings, 547, Kalbadevi Rd., Bombay 400002.
Korula Rubber Co. Pvt. Ltd., 249-B, Worli, Bombay 400018.
Lathia Rubber Manufg. Co. Ltd., Saki Naka, Bombay 400072.
Madras Ind. Linings Ltd., Chetput, Madras 600031.
Rawal Rubber Works Pvt. Ltd., Sukh Sagar, Hughes Rd., Bombay 400007.
Rubber Regenerating & Processing Co., 39-2, Canal West Rd., Calcutta 700004.
Swastik Rubber Products Ltd., Kirkee, Pune 411013.
United India Rubber Works, Lal Darwaja, Surat 395001.

Rubber Sheets

Associated Rubber Ind. Ltd., Gogo Rd., Bhavnagar 364001.
Associated Rubber & Plastic Works, 61, Bentinck St., Calcutta 700001.
Bhor Ind. Ltd., Bhor, Maharashtra.
East India Rubber Works Pvt. Ltd., Start Rd., Howrah 711101.
Fibre Foam Co-op. Ind. Ltd., Mathura Rd., Faridabad.
Fibro Foam Products, 9, Marquis St., Calcutta 700001.
General Rubber Co. Pvt. Ltd., 1/10, B. A. Ali Rd., New Delhi 110001.
Hindustan Rubber Works Ltd., Ballygunge Stn. Rd., Calcutta 700019.
Madras Ind. Linings Ltd., Ind. Estate, Madras 600058.
New India Rubber Works Ltd., 34-A, D. C. Dey Rd., Calcutta 700015.
Oriental Rubber Ind. Pvt. Ltd., Agra Rd., Bhandup, Bombay 400078.

Rubber Sports Goods

Ajit Rubber Ind., Ballabhgarh, Haryana.
Bata Shoe Co. Pvt. Ltd., Batanagar, 24-Parganas Dist.
Beekay Rubber Ind., P. O. Rayon Mills, Amritsar 143001.
Bhattacharya Rubber Works Ltd., Jessore Rd., Calcutta 700055.
Everest Rubber Works, Kalibari Rd., Calcutta 700030.
National India Rubber Works Ltd., Katni M.P. 483501.
Pioneer Rubber Mills (Bombay) Pvt. Ltd., Agra Rd., Bhandup, Bombay 400072.

Rubber Tapes

Adtapes Ltd., Darbargarh, Bhavnagar 364001.
Leukoplast (India) Pvt. Ltd., Rua S. Thome, Panaji 403001.
Nufield Ind. Corpn., Dhan Niwas, Shraddhanand Rd., Vile Parle, Bombay 400057.
S. Thakore & Co., Nava Darwaja Rd., Ahmedabad 380001.

Rubber Tread

Dunlop India Ltd., 57-B, Free School St., Calcutta 700016.
Good Shepherd Rubber Co., Ind. Estate, Olavakkod, Kerala.
Goodyear India Ltd., Ballabhgarh, Haryana 121004.
Inchek Tyres Ltd., Kankinarah, West Bengal.
Madras Rubber Factory Ltd., Tiruvottiyur, Madras 600019.

Rubber Tubing

Anand Rubber & Ebonite Products, Ind. Estate, Satpura, Nasik 422001.
Cosmos India Rubber Works Pvt. Ltd., 7, Homji St., Bombay 400001.
Helix Latex Ind., C-11, Model Town, Delhi 110006.
Industrial Products, 139-G, S. Vivekanand Rd., Bombay 400060.
Kantilal Chhotalal & Co., 22, B. Genu Rd., Bombay 400002.
Paul Rubber Works, 9, Ind. Estate, Faridabad, Haryana 121001.
Polymer Enterprises, 36, Hadapsar Ind. Estate, Pune 411028.
Tropical Rubber Co., 1, Barreto's Lane, Calcutta 700001.

Rubberised Coir

Fibre Foam Pvt. Ltd., Viveknagar, Balipatam, Kerala.
Koirlap Ind. Pvt. Ltd., Mavelikara 690101, Kerala.
Rubbero Fibre Pvt. Ltd., Chungom, Alleppey 688001.

SANITARY FITTINGS

Delhi

Civil Engg. Co., Arya Samaj Rd., Karol Bagh, New Delhi 110015.
Develop Pump Ind., F.2/27, Krishna Nagar, Delhi 110051.
Gayfield & Co., Chawrie Bazar, Delhi 110006.
Hind Trdg. & Manufg. Co., Gali Barna, Bara Tooti, Sadar Bazar, Delhi 110006.
Kasting Pvt. Ltd., 31 Karnal Rd., Delhi.
Naveen Ind., C-82 Maya Puri, New Delhi 110027.
Parekh & Co., Chawrie Bazar, Delhi 110006.
Sanitary Goods Manufrs., Gurudwara Rd., Karol Bagh, New Delhi 110015.
Vijay Metal Ind., 3830 Gali Lohewali, Charkhewalan, Delhi 110006.

Gujarat

Khodiyar Pottery Works Ltd., Sihor.

Haryana

Hindustan Sanitary Wares Ind. Ltd., Bahadurgarh.
Metal India Corpn., Plot 245, Sector 24, Faridabad 121001.

Maharashtra

Amar Brass & Iron Works, 159 S. G. Barve Marg, Bombay 400029.
Anand Machinery Pvt. Ltd., 3 B. Chinchwad Ind. Area, Pune 411019.
Balsara & Co., 43 N. Master Rd., Bombay 400001.
Bombay Bldg. Materials Trdg. Co., 73 N. Master Rd., Bombay 400001.
Pioneer Iron Foundry, 130/C, Sukhlaji St., Bombay 400003.

Mysore

Metro Malleable Manufrs. Pvt. Ltd., Mysore Rd., Bangalore 560001.

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Punjab

Aminchand Bholanath, Tanda Rd., Jullundur 144001.
Batala Engg. Co. Ltd., Grand Trunk Rd., Batala 143505.

Tamil Nadu

E.I.D. Parry Ltd., Dara House, Madras 600001.
Hargo Ind., 2A, Ind. Estate, Madras 600058.
Madras Enamel Works Ltd., 65 Sydenham Rd., Madras 600001.
Regal Products Pvt. Ltd., 186 Royapeth High Rd., Madras 600014.

Uttar Pradesh

Peepul Iron & Steel Ind. Ltd., 34-35, Factory Area, Kanpur 208001.

West Bengal

Agarwal Hardware Works Pvt. Ltd., 167 Chittaranjan Ave., Calcutta 700001.
Allied Agencies (India), 10 N. Chunder St., Calcutta 700012.
The Bengal Machinery Co. Pvt. Ltd., 9A, New Tangra Rd., Calcutta 700046.
Brittania Engg. Works & Foundry, 34-35 Hardinge Rd., Salkia, Howrah 711101.
Thakurdas Sureka Iron Foundry Ltd., Banstolla Ghat Rd., Howrah 711101.

SEWING MACHINES

Andhra Pradesh

Jay Engg. Works Ltd., (Hyderabad Usha Works), P.O. Balangar, Bowenpally, Secunderabad 500011.
Sadanand Engg. Works, 19/1, Ind. Area, Azamabad, Hyderabad 500020.

Delhi

Delhi Sewing Machine Co. Pvt. Ltd., Qabul Nagar, Shahadara 110032.
Leader Sewing Machine Co., 49, Esplanade Rd., Delhi 110006.
Mahabir Export & Import Co. Pvt. Ltd., G.T. Rd., Delhi-Shahadara 110032.
Peter Engg. Co., 29, Beadonpura, Karol Bagh, New Delhi 110005.
Rama Sewing Machine Co., 4168, Nai Sarak, Delhi 110006.

Gujarat

Vijay Sewing Machines Co., Ashapuri Rd., Navsari 396445.

Haryana

British Machinery Supplies Co., 17A, New Ind. Township, Faridabad 121001.

Maharashtra

Shah & Co., 161/63, Charni Rd., Bombay 400004.
Singer Sewing Machine Co., Singer Bldg., 207, Dr. D. Naoroji Rd., Bombay 400001.
United Trading Agencies, 611, Girgaum Rd., Bombay 400002.

Punjab

Amar Electric & Mechanical Engg. Works, G.T. Rd., Millerganj, Ludhiana 141001.
C. R. Aulack & Co., 426, Ind. Area, G.T. Rd., Ludhiana 141001.
Gobind Ram & Sons, Millerganj, Ludhiana 141001.
New Bijli Foundry, G.T. Rd., Batala 143505.
Panesar Mechanical Works Pvt. Ltd., Ind. Area, Gill Rd., Ludhiana 141001.
Pt. Ramji Das Harbans Lal (Regd.), Sewing Machine Works, Bastti Pathanam, Patiala 147001.
Rita Mechanical Works, Ind. Area, Ludhiana 141001.
Seth Jagat Bandhoo (Regd.), Seth Jagat Bandhoo Rd., Amritsar 143001.

Tamil Nadu

British Machinery Supplies Co., 136, Mount Rd., Madras 600006.
Sharda Machinery Corpn., G.S. Trunk Rd., Chrompet, Madras 600044.

West Bengal

Bagri Iron & Steel Co., 40/1 Shibtola St., Calcutta 700007.
Jay Engg. Works Ltd., 183-A.P. Anwar Shah Rd., Calcutta 700031.
Lotus Ind., 15, Stark Rd., Lilluah, Howrah 711101.
Mahinder Singh Ragbir Singh, 55/103, Canning St., Calcutta 700001.

SILK AND ART SILK MILLS
(Mills having more than 24 power-looms)

Andhra Pradesh

Sirsilk Ltd., Sirpur, Kaghasnagar.

Delhi

D. C. M. Silk Mills, Najafgarh Rd., New Delhi 110015.

Gujarat

Ambika Weaving Factory, Salabatpura, Surat 395001.
Anil Textile Mill, Nirwanbaba's Akhada, Begumpura, Surat 395001.
Artex Manufg. Co., New Cotton Mills, No. 1, Comp., Outside Rajpur Gate, Kankaria Rd., Ahmedabad 380001.
Arun Silk Weaving Factory, Salabatpura, Begumwadi No. 2455, A. B. Surat 395001.
Arun Textiles, Suryapur Mills Comp., Warchha Rd., Surat 395003.
Balwant Silk Weaving Works, Tarwadi Rd., Amreli Dist. (Saurashtra) 364601.
Bhagubhai Dahyabhai Gajiwala Weaving Factory, Kala Mahta's St., Sagrampura, Surat, 395001.
Crown Silk & Rayon Mills Pvt. Ltd., Sobhraj Park, 208, Nikol Rd., P. O. Thakkarbapanagar, Ahmedabad 380001.
Dhamanwala Arvind Silk Mills, Rustompura, Dhamanwala St., Surat 395001.
Dhamanwala Silk Mills, Udhana Rd., Khatodare, Surat 395002.
Dhanamal Silk Mills, Warchha Rd., Surat 395003.
Diamond Silk & Rayon Mills, 210, Nikol Rd., P.B. 1129, Ahmedabad 380002.
Garden Silk Weaving Factory, Rampura Tunki, Surat 395003.
Harihar Silk Mills, Rampura, Main Rd., Surat 395001.
Harishchandra Parashram Weaving Factory, Salabatpura, Ambawadi, Navi Sadak, Surat 395001.
Hathiwala Silk Mills, Begumpura, Surat 395001.
Hathiwala Weaving Mills, Begumpura, Surat 395001.
Hindi Fabrics Weaving Factory, Lal Darwaja, Gundisheri, Surat 395001.
Keshavlal Vajechand & Sons Ltd., C/o. K. K. Kapadia, Power House Rd., Cambay.
Maharana Mills Pvt. Ltd., P.B. 11, Porbandar (Saurashtra).
Manilal Shivlal Weaving Factory, Salabatpura, Sambawadi, Surat 395001.
Master Silk Mills Ltd., Bhavnagar (Saurashtra) 364001.
Mehta Silk Mills Pvt. Ltd., P.B. 32, Billimora.
Monco Silk Mills, Chidia Kui, Narmadadevi Estate, Surat 395001.
Nagindas Champaklal Dhamanwal, Rustompura, Agiari Mohalla, Surat 395001.
Nalini Silk Mills, Desai Sheri, Sagrampura, Surat 395001.
Navjivan Weaving Works, C/o Hathiwala Rayon Mills Comp., Chichia Kui, Begumpura, Surat 395001.
New Laxminarayan Mills, Madhobhai Comp., Railwaypura, Ahmedabad 380002.
Prabhat Silk & Cotton Mills Co. Ltd., Dr. Amichand Shah's Wadi, Rampura Tunki, Surat 395003.
Prabhu Silk Mills, Main Rd., Rampura, Surat 395001.
Reshamwala Silk Weaving Works, Rampura Rd., Surat 395001.
Shree Jyoti Silk Weaving Works, Zampa Bazar, Surat 395001.
Shree Laxmi Silk Weaving Factory, Jansinhpura, Amreli (Saurashtra) 364601.
Shree Yamuna Mills Co. Ltd., P.B. 38, Vadodara 390001.
Standard Silk Mills, Lal Darwaja, V. Devdi Rd., Surat 395003.
Swastik Weaving Works, A. Kumar Rd., Surat 395001.
United Textile Manufg. Co., Chevli St., Begumpura, Surat 395001.
Vishwanath Weaving Factory, Nirvanbaba's Akhada, Begumpura, Surat 395001.
Wintex Mills, Lal Darwaja, Station Rd., Surat 395001.
The Zenith Silk Mills, Lal Darwaja, Vadtal Devdi Rd., Surat 395001.

Madhya Pradesh

Gwalior Rayon Silk Manufg. (Weaving) Co. Ltd., P.O. Birlanagar, Gwalior.

Maharashtra

Adarsh Textile Industries Ltd., Agra Rd., Bhiwandi, Thana Dist. 400601.
Aleli & Co., Agra Rd., Vikhroli, Bombay 400079.
Alliance Silk Mills, Atlas Mills Comp., Reay Rd., Bombay 400010.
Allied Silk Mills, Silk House, 4th Fl., Girgaum Rd., Bombay 400002.
Amar Silk Mills, New Islam Mills Comp., Currey Rd., Bombay 400013.
Ambika Silk Mills Co. Ltd., 11-12, Haines Rd., Mahalaxmi, Bombay 400013.
Anant Silk Industries, 53, Chhipi Chawl, Bombay 400002.
Anis Silk Mills, C/o Mani's Trading Corpn., Room No. 33, 305, Shri Krishna Niwas, Yusuf Meherali Rd., Bombay 400003.
Ahuja Silk Mills, 83, Vithalwadi, Bombay 400002.
Asava Silk Mill, C/o Narayandas M. Asava, Ashok, Jilhapeth, Jalgaon 425001.
Asher Silk Mills, Paranjpe 'B' Scheme, Saneri Rd., Vile Parle (East), Bombay 400057.
Ashok Silk Mills, Agra Rd., Near Dargah, Ghatkopar, Bombay 400077.
Asian Rayon Mills, New Islam Mills Comp., Currey Rd., Bombay 400013.
B. M. K. Industries Ltd., Kalina Rd., Old Kurla, Bombay 400037.
Bhaichand Textile Mills, Agra Rd., Bhandup, Bombay 400078.
Bharat Silk Mills Ltd., Opp. Kumari Village, Agra Rd., Kurla, Bombay 400070.
Bharat Vijay Velvet & Silk Mills, Gazdar House, 631, Girgaum Rd., Dhobi Talao, Bombay 400002.
Bipin Silk Mills Pvt. Ltd., 12, Dadar Rd., Kasturchand Mills Comp., Dadar, Bombay 400028.
Bishen Silk Mills, Bashen Udyog Premises Co-op. Society Ltd., L. B. Shastri Marg, Mulund (West), Bombay 400080.
Bombay Silk Mills Pvt. Ltd., Ind. Estate, Lalbaug Bombay 400012.
Brij Silk Industries, Khanna Ind. Estate, Kurla-Andheri Rd., Saki Naka, Bombay 400072.
Brij Textiles, 4/C, Vulcan Insurance Bldg., V. Nariman Rd., Bombay 400001.
Cadell Weaving Mill Co. Pvt. Ltd., 211/213, Kalbadevi Rd., Bombay 400002.
Central Weaving & Manufg. Co., 19, Chinch Bunder, Bombay 400009.
Chokshi Silk Mills, 61/63, Shamset St., Chhipi Chawl, Zaveri Bazar, Bombay 400002.
Commercial Textile Factory, 172, Lohar Chawl, Bombay 400002.
D. V. Industries, Bhau Saheb Desai Wadi, B. Shankar Rd.; Dadar, Bombay 400028.

Dhanish Silk Mills, 32, Shroff Mansion, Princess St., Bombay 400002.

Eldee Velvet & Silk Mills, Opp. Bawalla Mosque, Delisle Rd., Parel, Bombay 400013.

Ellora Silk Mills Pvt. Ltd., Kashmira, S. Vivekanand Rd., Bhayandar Post, Thana 400601.

Ganga Silk Mills, 110, Dr. A. Besant Rd., Worli, Bombay 400018.

Geeta Silk Mills, 26/28, Narayan Printing Press, Kolbhat Lane, Kalbadevi Rd., Bombay 400002.

Gokul Enterprise Pvt., Ltd., 194, New Islampura Ward, Bhiwandi, Thana Dist. 400601.

Haren Textiles Pvt., Ltd., C/o. Ambika Silk Mills Co., Ltd., 11/12, Haines Rd., Mahalaxmi, Bombay 400013.

Harit Synthetic Fabrics Pvt. Ltd., 52/54, Nakhoda St., Pydhonie, Bombay 400003.

Harshad Textile Mills Pvt. Ltd., Sadhana Rayon House, Dr. D. Naoroji Rd., Bombay 400001.

Himdoot Weaving & Finishing Mills Pvt. Ltd., Saki Vihar Rd., Powai, Bombay 400072.

Hind Silk Mills Pvt. Ltd., C/o Mansukh Dyeing & Printing Mills Comp., Kanjur Village Rd., Bhandup, Bombay 400078.

Hindustan Silk Mills, C/o Ramesh Chandra & Co., Jai Niwas, 36, A. Rehman St., Bombay 400003.

J. K. Textiles, Agra Rd., Vikhroli, Bombay 400079.

Jagdamba Fabrics Weaving Works, Pirubaug, Goregaon (East), Bombay 400063.

Jaibharat Silk Mills, 498, Kalbadevi Rd., Bombay 400002.

Jaifabs Rayon Industries Pvt. Ltd., Opp. Hatterslay Mills, Agra Rd., Ghatkopar, Bombay 400077.

Jasmine Mills Pvt. Ltd., Dharavi, Bombay 400017.

Joy Silk Mills, 625, Nariman Bldg., Near Kalbadevi Post Office, Bombay 400002.

Jyoti Silk Mills, C/o Vanmalidas Zaverchand, 418, Kalbadevi Rd., Bombay 400002.

Kay-Am Textiles, 108, Cavel St., Bombay 400002.

Kailash Knitting Industries, Jivan Silk Mills Comp., Andheri-Kurla Rd., Bombay 400072.

Kailash Silk Mills, Jivan Mills Comp., Andheri-Kurla Rd., Sakinaka, Bombay 400072.

Kala Silk Factory, Opp. Peru Baug, Aarey Rd., Goregaon East, Bombay 400063.

Kamala Silk Mills, 31, Silk House, Hamalwadi Corner, Girgaum Rd., Bombay 400002.

Kapoor Weaving Works, Gamdevi Rd., Off Agra Rd., Bhandup, Bombay 400078.

Khanna Silk Mills Ltd., Silk House, Silk Bazar, P.B, 2174, Bombay 400002.

Kiran Silk Mills Ltd., Kasturchand Mills Comp., Dadar, Bombay 400014.

Kothari Silk Mills, Atlas Mills Comp., Reay Rd. Bombay 400010.

Krishna Textile Mills, Kishore Bldg., 523, Kalbadevi Rd., Bombay 400002.

Kum Kum Silk Mills Co., Chhipi Chawl, Shamset St., Zaveri Bazar, Bombay 400002.

Kumar Silk Mills, 10, Vishweshwar Nagar, Aarey Rd., Goregaon East, Bombay 400063.

L. D. Weaving Industries Pvt. Ltd., Mehra Estate, Agra Rd., Vikhroli, Bombay 400079.

Lajya Silk Mills, 6/8, Jambool Wadi, Kalbadevi Rd., Bombay 400002.

Liberty Silk Mills Pvt. Ltd., Bharat House, 104, Apollo St., Bombay 400001.

Louis Rayon Mills, 29, Gala Ind. Estate, Dumping Rd., Mulund (West), Bombay 400080.

M. Manubhai & Co., Nagu Sayajiwadi, New Prabhadevi Rd., Bombay 400025.

Mahajan Silk Mills, 1/C-81, Dadajee Dhakjee Bldg., Dr. A. Besant Rd., Bombay 400018.

Mahabir Silk Mills, 64, Chhipi Chawl, Opp. M. J. Market, Bombay 400002.

Mahendra Silk Mills Ltd., 105/107, Tambakanta, Bombay 400003.

Malhotra Silk Mills, Khanna Estate, 59, Saki Naka, Kurla-Andheri Rd., Bombay 400072.

Manhar Mills Ltd., Framji Petit Mills Comp., Reay Rd., Bombay 400010.

Mohanlal Silk Mills, Atlas Mills Comp., Reay Rd., Bombay 400010.

Nanikram Sobhraj Mills Ltd., C/o. J. Kimatrai & Co., New Silk Market, P.B. 2054, Bombay 400002.

Narayan Textile Mills, 46/48, Champa Galli, Bombay 400002.

Narendra Silk Mills, Atlas Mills Comp., Reay Rd., Bombay 400010.

National Art Silk Mills Ltd., Old Kasturchand Premises, Dadar, Bombay 400028.

National Rayon Mills, 405, Kalbadevi Rd., Bombay 400002.

Neeru Silk Mills, Mathuradas Mills Comp., Lower Parel, Bombay 400013.

New Era Fabrics Pvt. Ltd., Mogul Lane, Mahim, Bombay 400016.

New India Rayon Mills Co. Ltd., Mathuradas Mills Comp., Lower Parel, Bombay 400013.

New Mahalaxmi Silk Mills Ltd., Mathuradas Mills Comp., Lower Parel, Bombay 400013.

New Oriental Silk Mills Pvt. Ltd., Shree Nath Bhavan, 27, Picket Rd., Cross Lane, Bombay 400002.

New Prabhat Silk Mills, New Silk Bazar, Kalbadevi Rd., Bombay 400002.

New Shorrock Spinning & Manufg. Co. Ltd., Mafatlal House, Backbay Recl., Churchgate, Bombay 400002.

New-Vinod Silk Mills Ltd., Kasturchand Mills Estate, Dadar, Bombay 400028.

Novelty Silk Mills, Dinanath Sons, 466, Bharat Bhuvan Kalbadevi Rd., Bombay 400002.

Orkay Silk Mills Pvt. Ltd., 5/C, Vulcan Insurance Bldg., Veer Nariman Rd., Churchgate, Bombay 400020.

Panalal Silk Mills Ltd., Atlas Mills Comp., Reay Rd., Bombay 400010.

Panalal Silk Mills (No. 2 Unit), Bombay Cotton Mills Comp., Kalachowki Rd., Parel, Bombay 400012.

Panchsheel Textile Industries, Ganesh Bldg., Ganesh Wadi, Bombay 400002.

Pankaj Silk Industries, Adarsh Society, Marve Rd., Malad, Bombay 400064.

Paragon Textile Mills, Globe Mills' Passage, Bombay 400013.

Paras Silk Mills, Sunder Baug, Agra Rd., Kurla (North), Bombay 400070.

Parekh Silk Mills, Paranjpe Scheme, Plot 'B', Sona Rd., Vile Parle (East), Bombay 400057.

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Podar Silk & Synthetics Ltd., Podar Chambers, Sayed A. Brelvi Rd., Bombay 400001.

Pratap Silk Mills, Paranjpe's Scheme B, Vile Parle (East), Bombay 400057.

Premco Silk Industries, Gandhi Mansion, New Silk Bazar, Bombay 400002.

Radha Silk Mills, 30, Parsi Panchayat Rd., Andheri, Bombay 400058.

Raghuwanshi Mills Ltd., 11-12, Haines Rd., Mahalaxmi, Bombay 400013.

Rajesh & Co., Pvt. Ltd., Ram Mandir Rd., Ghass Bazar, Near New Standard Engg. Co., Goregaon (East), Bombay 400063.

Rajkamal Silk Mills, 34/42, Nesbit Rd., Mazagaon, Bombay 400010.

Rajratna Silk Mills, 20, Navroji Seth St., Thakurdwar, Bombay 400002.

Ramkrishna Silk Mills, Dr. A. Besant Rd., Worli, Bombay 400018.

Ramzan Naboo Weaving Factory, Bengalpura, Bhiwandi, Thana.

Rattan Silk Mills, Shop No. 498, No. 2, Chandra Chowl, M. J. Market, Bombay 400002.

Raylon Silk Mills, 20, Navroji Seth St., Thakurdwar, Bombay 400002.

Rayon Textiles Manufg. Co., 771, Mogul Lane, Mahim, Bombay 400016.

Reliance Textile Industries Pvt., Ltd., Court House, Tilak Marg., Dhobi Talao, Bombay 400002.

Rita Industries, Gandhi Mansion, Near Silk Bazar, Bombay 400002.

Ruby Mills Ltd., Lady Jamshedji Rd., Dadar, Bombay 400028.

S. A. R. Silk Industries, Gandhi Mansion, 12, New Silk Bazar, Bombay 400002.

Sadhana Textile Mills Pvt. Ltd., Sadhana Rayon House, Dr. D. Naoroji Rd., Bombay 400001.

Samarth Velvet Manufg. Co., Kanjur Village Rd., Bhandup, Bombay 400078.

Samraat Silk Mills, L. B. Shastri Marg, Vikhroli, Bombay 400079.

Saraswati Silk Mill, Old Anjirwadi, 34, Champshi Rd., Mazagon, Bombay 400010.

Saroj Silk Mills, 464/68, Bharat Bhuvan, Kalbadevi Rd., Bombay 400002.

Sarwodaya Silk Mills, Agra Rd., Old Kurla, Bombay 400070.

Satish Textiles Pvt. Ltd., 56, Champa Galli, Opp. M. J. Market, Bombay 400002.

Saudagar Textile Works, H. No. 41, Sutar Ali, Bhiwandi, Thana Dist.

Saurashtra Silk Mills, C/o Kantilal Manilal Kamdar, 36, Bhangwadi, Kalbadevi, Bombay 400002.

Sehka Corpn., Ghatkopar Ind. Estate, Bldg. No. 3, 'B' Block, Gala No. 26A, L. B. Shastri Marg, Ghatkopar, Bombay 400077.

Shanghai Mills Pvt. Ltd., 51, Dadyseth Agiary Lane, Bombay 400002.

Shanti Rayon Mills, C/o Shanti Textile Industries, P.O. J. B. Nagar, Bombay 400059.

Sharada Silk Mills Ltd., Dahanukar Bldg., New Silk Market, Bombay 400002.

Shiv Silk Mills, 91, Shalimar, Marine Drive, Bombay 400002.

Shree Central Silk Mills, 56/58, Agra Rd., Kurla, Bombay 400070.

Shree Mohan Dyeing, Printing & Weaving Mills, Gandhi Mansion, New Silk Bazar, Bombay 400002.

Shree Shakti Mills Ltd., Podar Chambers, Parsee Bazar St., Bombay 400001.

Shree Shanti Textiles Pvt. Ltd., Agra Rd., Ghatkopar, Bombay 400077.

Silk Industries (I.), Mehra Ind. Comp., Kurla-Andheri Rd., Bombay 400072.

Standard Mills Co. Ltd., Mafatlal House, Backbay Recl., Bombay 400001.

Subhash Silk Mills, Kurla-Andheri Rd., Sakinaka, Bombay 400072.

Suvarna Industries, Mehra Estate, Agra Rd., Vikhroli, Bombay 400079.

Usha Prints (I.) Pvt. Ltd., Mehra Estate, Agra Rd., Vikhroli, Bombay 400079.

V. R. Textile Industries, Vajubhai House, 252/58, Sheikh Memon St., Zaveri Bazar, Bombay 400002.

Vania Silk Mills Ltd., C/o Jasmine Mills Ltd., 500, Kalbadevi Rd., Bombay 400002.

Vipul Silk Mills, Ganesh Godown No. 15, Tank Bunder Rd., Reay Rd., Bombay 400010.

Mysore

Kobay Silk Mills, Modge, P.O. Balekundri, Belgaum Dist. 590001.

Uttar Pradesh

Modi Rayon & Silk Mills, Modinagar.

Shree Silk Mills, C-30/35/D-1, Maldehiya, Varanasi 221001.

West Bengal

Calcutta Silk Manufg. Co., 135-A, B. R. Basu Rd., Calcutta 700001.
Sarat Textiles Ltd., 9, B. Trunk Rd., Calcutta 700002.
Shri Ram Silk Manufg. Co., 14, Netaji Subhash Rd., Calcutta 700001.

SOAP AND TOILETRIES

Andhra Pradesh

Tungabhadra Ind. Ltd. Kurnool 518001.

Bihar

Anand Chemical Ind., Kachisarai, Muzaffarpur 842001.

Delhi

D. C. M. Chemical Works, Najafgarh Rd., New Delhi 110015.
Universal Perfumery Co., 5643, Gandhi Market, Sadar Bazar, Delhi 110006.

Maharashtra

A. A. A. Harwala & Co., 295, Janjiker St., Opp. Juma Masjid, Bombay 400002.
Ahura Chemical Products Pvt. Ltd., 84, Sion Rd., Sion East, Bombay 400022.
Berar Oil Ind., Vanasdapeth, Akola 444001.
Bombay Soap Factory, Ahmed Oomer St., Two Tanks, Bombay 400008.
C. C. Mahajan & Co., 79, Sutar Chawl, Bombay 400002.
Camphor & Allied Products Ltd., Jehangir Bldg., 133, M. Gandhi Rd., Bombay 400001.
Colgate-Palmolive (I.) Pvt. Ltd., Steelcrete House, 3, Dinshaw Vachha Rd., Churchgate Recl., Bombay 400001.
D. D. Shah & Co., Damodar Bldg., 105, Princess St., Bombay 400002.
E. S. Patanwala, Patanwala Ind. Estate, Bombay-Agra Rd., Ghatkopar, Bombay 400077.
General Detergents, 38, Podar Chambers, S. A. Brelvi Rd., Bombay 400001.
Geoffrey Manners & Co. Ltd., Magnet House, Dougall Rd., Ballard Estate, Bombay 400001.
Godrej Soaps Pvt. Ltd., Eastern Express Highway, Vikhroli, Bombay 400079.
HIMCO Products Pvt. Ltd., Mogal Lane, P.B. 6467, Bombay 400016.
Hindustan Lever Ltd., 165/166, Backbay Recl., Bombay 400001.
Industrial Perfumes Ltd., Army & Navy Bldg., M. Gandhi Rd., Fort, Bombay 400001.
J. K. Helene Curtis Ltd., Jekegram, Thana, 400606.
Kemp & Co. Ltd., 88C, Old Prabhadevi Rd., Bombay 400025.
Lakme Ltd., Bombay House, 24, Bruce St., Bombay 400001.
Muller & Phipps (India) Pvt. Ltd., Queens Mansion, Bastion Rd., Bombay 400001.
Naarden Chemical Wks. (I) Ltd., 6, Saki Vihar Rd., Saki Naka, Bombay 400072.

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Company Secretary : S. H. Gursahani.

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Rallis India Ltd., Ralli House, 21, Raveline St., Bombay 400001.
Rocky Chemicals Pvt. Ltd., 44, Lakshmi Ind. Estate, Gowalia Chawl Lane, Lower Parel, Bombay 400013.
S. H. Kelkar & Co. Pvt. Ltd., L. B. Shastri Marg, Mulund, Bombay 400080.
Swastika Oil Mills Ltd., P.B. 362, Bombay.
Tata Oil Mills Co. Ltd., 24, Bruce St., Fort, Bombay 400001.
Western India Vegetable Products Ltd., P.B. 12, Amalner, Jalgaon Dist.

Mysore

Desi Soap Works, Sampangi Tank Rd., Bangalore City 560002.
Manyam & Co., Raja Snow Bldg., Seshadripuram, Bangalore 560020.
Margarine & Refined Oils Co. Pvt. Ltd., 125/1, Mysore Rd., Bangalore 560026.
Miltan Chemeplas Corpn., 17/18, Small-Scale Ind. Area, Rajajinagar, Bangalore 560010.
Mysore Government Soap Factory, Post Bag No. 1031, Bangalore 560012.

Tamil Nadu

Ganga Works, Lattice Bridge Rd., Adyar, Madras 600020.
Madras Vanaspati Ltd., 12/13, A. Naicker St., Madras 600001.
Veto Co., 16, Jones St., Madras 600001.

Uttar Pradesh

Amrit Banaspati Co. Ltd., Amritnagar, Ghaziabad 201001.
Modi Soap Works, Modinagar, Meerut 250001.
Prag Vanaspati Products, Aligarh 202001.

West Bengal

Asiatic Soap Co., 8, Dalhousie Sq. East, Calcutta 700001.
Bangaluxmi Soap Works, 7, Chowringhee Rd., Calcutta 700013.
Bengal Chemical & Pharmaceutical Wks. Ltd., 6, G. Chandra Ave., Calcutta 700013.
Calcutta Chemical Co. Ltd., 35, Panditia Rd., Calcutta 700029.
Calcutta Soap Works, 'Calsopark', P.O. Tiljala, 24 Parganas 700039.
Himani Pvt. Ltd., 3, Khelat Babu Lane, Calcutta 700002.
Hindustan Development Corpn. Ltd., Hindu Family Bldgs., 27, Sir R. N. Mukherjee Rd., Calcutta 700001.
Howrah Chemical Co., 53/12/2, B. B. Bose Rd., (Ramkristopur), Howrah 711101.
John Paterson & Co. (I.) Ltd., 96, Garden Reach Rd., Calcutta 700023.
Kusum Products Ltd., Bombay Mutual Bldgs, 9, Brabourne Rd., Calcutta 700001.
Model Soap Co., Mehta Bldg., 55, Canning St., Calcutta 700001.
National Jute Trdg. Co. Ltd., 8, Dalhousie Sq. East, Calcutta 700001.
P. Sett & Co. Pvt. Ltd., 3, R. K. Sen Lane, Calcutta 700004.
Reckitt & Coleman of India Ltd., 41, Chowringhee, Calcutta 700016.
Rohtas Ind., 11, Clive Row, Calcutta 700001.
Sisir Soap Works, 12/1, Jessore Rd., Dum Dum 700028.
Swaika Vanaspati Products Ltd., P.N.B. House, 18B Brabourne Rd., Calcutta 700001.
Vegetable Products Ltd., 1 & 2, Old Court House Corner Calcutta 700001.

STARCH

Gujarat

Anil Starch Products Ltd., Anil Rd., P.O. Railwaypura, Ahmedabad 380002.
Maize Products, P.O. Kathwada, Ahmedabad 380002.

Kerala

Kamala Sugar Mills, Kottyam 686001.
Laxmi Starch Factory Ltd., Kundara,
Tapioca Products, Trichur 686 001.

Madhya Pradesh

Rajaram & Bros., Mhow-Neemuch Rd., Mandsaur 458001.

Maharashtra

Laxmi Starch Ltd., Das Chambers, Dalal St., Fort, Bombay 400001.

New Delhi

Bharat Starch & Chemicals Ltd., Thapar House, 124, Janpath, New Delhi 110001.

Punjab

Sukhjit Starch & Chemicals Ltd., Phagwara.

Tamil Nadu

Kamala Sugar Mills Ltd. Coimbatore 641001.

STEEL & STEEL PRODUCTS

GKW

GUEST, KEEN, WILLIAMS, LIMITED

Registered Office:
3-A, Shakespeare Sarani, Calcutta-16.

Works:
97, Andul Road, Howrah-3, West Bengal.

Lal Bahadur Shastri Marg, Bhandup, Bombay-400078.

Rajajinagar, Bangalore-10.

Main Products Manufactured by the four Operating Divisions

Precision Pressings Division

Electrical steel stampings and laminations, precision metal pressings and toroidal cores.

Steel Division

Alloy, spring, high quality carbon, ball bearing, boron, file, forging quality, free cutting and other special steels in hot rolled and bright bar condition.

Fasteners Division

High tensile fasteners, mild steel bolts and nuts, rivets, spikes, woodscrews, machine screws, self tapping screws, cotterpins, tinmen's rivets, semi-tubular and tubular rivets and other industrial fasteners, safety pins.

Engineering & Forgings Division

Carbon, alloy and other special steel automotive forgings, forgings for diesel engines and other machineries.

SPECIAL STEELS LIMITED

Registered Office & Factory :
Mouje Magathane, Dattapara Road, Borivli (East), Bombay 400066.
Phone : 662421. *Grams :* "DRAWNWIRES".
Telex : 011-2652.

City Office :
'New India Centre' 17, Cooperage Road, Bombay 400001.
Phone : 213127. *Grams :* "DRAWNWIRES".
Telex : 011-3523

Our Manufacturing Range

Mild Steel Wires : Cable Armour wire, Electrode wires G. I. wires, Telegraph wire, Stay wire, H.B. wire, Mild Steel Annealed wire, Copper Coated and Tin Coated wire for pins, clips, staples and sparklers, Shoetack wire, Steel—Wool wire, Reed wire, Ring traveller wire, Stitching wire Galvanised, Cycle Chain Rivet wire, Cycle Accessories wire, Cold heading quality wire for wood screws, Machine screws, Low tensile bolts, Rivets and Textile accessories, C-1110 Cold heading quality wire for scrapless nuts, Tin-coated Detonator wire, Mild steel square umbrella rib wire, Round Base wire and other low carbon and Mild Steel wires.

High Carbon Steel Wires : High Carbon Steel wire for cycle balls conveyer belts, spring washers and circlips, trapezoidal, square an rectangular wires for spring washers, C-1038, etc., cold heading quality for high tensile bolts, tin-coated armature banding wire, Copper and Bronze coated tyre bead wire, Patented heald wire, Patented and drawn heald wire, Prestressed Concrete Wire — single — as drawn Prestressed Concrete wire — stress relieved, Prestressed concrete wire — stranded — stress relieved, Galvanised and Bright spoke wire for cycles and mopeds, Spring steel wire — patented and drawn, Spring steel wire-hardened and tempered, Spring steel wire — Annealed, Needlewire-copper coated and bright, Umbrella rib wire, Tiller Spring wire, Shutter Spring wire, Brush wire, Metallic Card Clothing wire, single or stranded A.C.S.R. Core wire and other High Carbon steel wires.

Alloy Steel Wires : Chain Rivet wire for industrialroller chains (SAE 8622, 16MnCr5), High tensile chain link wire, (SAE 8622, SAE 8620, etc.), Cold heading quality wire for high tensile fasteners (AISI 4140), High carbon chromium ball bearing wire (SAE 52100) and other alloy Steel wires.

Stainless Steel Wires : Stainless steel wires for electrodes, springs, hospital-ware, chemical and food industry, fasteners, sieves, wire mesh, watch straps, Ball Bearings, etc.

Bright Drawn Bars : In the following qualities :
Alloy steel — SAE 52100, SAE4140, SAE8622, 16MnCr5, En51, En52, En54, En59, En24, etc., Mild Steel, Free cutting steel-en-1A, C 1110 etc. High Carbon steel-En8, En9, En42, C 1038, etc.

Flat Strips : Cable armour strip, Base wire, High carbon and Mild steel strips.

Regional Offices :

Everest House, Blocks D & E, 46-C, Chowringhee Road,
Calcutta 700016.
Phone : 444137. Grams : "STEELNOOK." Telex : 021-587.

1/3A, Govind Mansion, H Block, 1st floor, Indra Palace
(Annexe), Connaught Place, New Delhi 110001.
Phone : 47926. Grams : "DRAWNWIRES. Telex : 031-483.

Hamid Buildings, 3rd floor, 40 Mount Road, Madras 600001.
Phone : 84755. Grams : "DRAWNWIRES". Telex : 041-377.

Rajeshwari Bhavan, Gurudhan, Durga-Kund Road, Varanasi.
Phone : 66033. Grams : "DRAWNWIRES".

STEEL FURNACES

Andhra Pradesh

Andhra Steel Corpn. Ltd., Malkapuram, Visakhapatnam 530001.

Kowtha Steel Products, Vedaswarajya Bhuvanam, Ramavarappadu, Krishna Dist.

Bihar

Ashoka Steels, Ashoka Cement Ltd., Dalmianagar.

Foundry Forge Plant of Heavy Engg. Corpn. Ltd., Dhurwa, Ranchi 834004.

Kumardhubi Engg. Works Ltd., Kumardhubi, Dhanbad 826001.

Tata Engg. & Locomotive Co. Ltd., Jamshedpur 831001.

Tata Yodogawa Ltd., Adityapur, Near Jamshedpur 831001.

Usha Alloys & Steel Ltd., Adityapur.

Gujarat

Bharat Steel Foundry, Ganedia Kuwa Rd., Kotharia, Rajkot 360001.

Hindustan Brown Boveri Ltd., Maneja, Makarpura Rd., Vadodara 390001.

Poly Steels (India) Ltd., Survey No. 46, Nari Rd., Bhavnagar 364001.

Steel Cast Corpn., Ruvapari Rd., Bhavnagar 364001.

Haryana

Dabriwals Steel & Engg. Co. Ltd., Sector 24, Plot No. 136, P.O. Faridabad 121001.

Globe Steels (Divn. of Globe Motors Ltd.), 21/4, Mathura Rd., Ballabgarh 121004.

Haryana Steel & Alloys Ltd., G.T. Rd., Murthal (Sonepat) 131001.

Jindal Strips Pvt. Ltd., Delhi Rd., Hissar 125001.

Northern India Iron & Steel Co. Ltd., 20/3, Milestone, Mathura Rd., Faridabad 121004.

Oswal Steels, Plot No. 263, Sector No. 24, Faridabad 121001.

Pratap Steel Rolling Mills Pvt. Ltd., 21/3, Mathura Rd., Ballabgarh 121004.

S. G. Steels Pvt. Ltd., Plot No. 6, Sector 4, Ind.-cum-Housing Estate, Faridabad 121001.

Universal Steel & Alloys Ltd., P.O. Gurukul, Indraprastha, Ind. Estate, Faridabad 121001.

Kerala

Steel Complex Ltd., 'Wisco Manor', Feroke.

Madhya Pradesh

Binod Steels Ltd., 68/77, Ind. Estate, Pologround, Indore 452001.

Central India Machinery Manufg. Co. Ltd., Agra Loop Rd., Birlanagar, Gwalior.

Himmat Steel Foundry Pvt. Ltd., Kumhari, Durg Dist.

Shri Ishar Alloy Steels Pvt. Ltd., Sector 'D', Sukhalia, Sanwar Rd., Indore 452001.

Maharashtra

Aeron Steel Rolling Mills, 2nd Pokhran Rd., Majiwada, Thana 400601.

B. R. Hermann & Mohatta (I). Pvt. Ltd., Murbag Rd., Opp. Century Rayon, P.O. Ulhasnagar 421001.

Godrej & Boyce Manufg. Co. Pvt. Ltd., Vikhroli, Bombay 400079.

Indian Steel Ind. Corpn., 106-7, Bazar Ward, Kurla, Bombay 400070.

Krishna Steel Ind. Pvt. Ltd., Plot C-39A, MIDC Ind. Area, Off Thana Bellapur Rd., Thana 400601.

Kumar Steel & General Mills, Vikhroli, Bombay 400083.

K. T. Steel Ind. Pvt. Ltd., Budlapur Rd., Ambarnath.

Mukund Iron & Steel Works Ltd., Kurla, Bombay 400070.

Malleable Iron & Steel Castings Co. Pvt. Ltd., Mathuradas Mills Comp., S. Bapat Rd., Lower Parel, Bombay 400013.

Mahindra Ugine Steel Co. Ltd., P.O. Khopoli, Kolaba Dist.

Mitur Castings Pvt. Ltd., Eastern Exp. Highway, Panchpakhadi, Thana 400601.

Premier Automobiles, Antop Hill, Wadala, Bombay 400031.

Western Rolling Mills Pvt. Ltd., L.B. Shastri Marg, Bhandup, Bombay 400078.

Mysore

Bhoruka Steel Ltd., Hoodi Village, Krishnarajapuram Rd Bangalore 560048.

Canara Workshops Ltd., Maroli, Mangalore 575005.

Mysore Iron & Steel Ltd., P.O. Bhadravati, Shimoga Dist.

Punjab

Apeejay Steel Castings Co. Pvt. Ltd., Tanda Rd., Jullundur City 144001.

Ashoka Alloy Steels Pvt. Ltd., Sadopur, Near Ambala City.

Punjab Concast Steels Ltd., Dhandri Kalan, Ludhiana 141001.

Punjab Iron & Steel Co. Pvt. Ltd., G.T. Rd., Jullundur Cantt., 144005.

Upper India Steel Manufg. & Eng. Co. Pvt. Ltd., Village Sherpur Kalan, G.T. Rd., Ludhiana 144005.

Rajasthan

Man Ind. Corpn. Ltd., Near Loco, P.B. 131, Jaipur 302001.

National Engg. Ind. Ltd., Jaipur 302001.

Tamil Nadu

Continuous Steel Casting Plant of TIDCO Ltd., Mosur Rd., Ehku Nagar, Akonam, 631001.

Ennore Foundries Ltd., Ennore, Madras 600057.

K.C.P. Ltd., Central Workshops, Tiruvottiyur, Madras 600019.

Shri Ramakrishna Steel Ind. Ltd., Post Karamadai, Coimbatore Dist.

Sivananda Steels Ltd., Ind. Estate, Ambattur, Madras 600058.

Uttar Pradesh

Ambica Steels Ltd., 51/2, Ind. Area, Site 4, Sahibabad-Ghaziabad 201001.

J. K. Iron & Steel Co. Ltd., Kalpi Rd., Kanpur 208001.

Meena Steels, Bindki Rd., Fatehpur Dist.

Modi Steels, Modi Ind. Ltd., Modi Nagar.

Motilal Padampat Sugar Mills Co. Pvt. Ltd., Steel Foundry Division, Gutaiya, Kanpur 208001.

Paliwal Steels Pvt. Ltd., Jarauda, Meerut Rd., Muzaffarnagar 251001.

Rainbow Steels Ltd., Meerut Rd., Muzaffarnagar 251001.

Rathi Alloys & Steel Ltd., Plot No. A-1, Ind. Area, South of G.T. Rd., Ghaziabad 201001.

Rathi Ispat Ltd., Area No. 1, Ghaziabad 201001.

R. R. Steels & Alloys Ltd., P.O. Clutterbuckgunj, Bareilly.

Saraya Steels Ltd., P.O. Sardar Nagar, Gorakhpur.

Shriniwas Steels Ltd., Near Jhansi.

Singh Engg. Works (Pvt.) Ltd., Fazalganj, Factory Area, Kanpur 208001.

Somani Steels Ltd., Sonik, Unnao Dist.

Uttar Pradesh Steels Ltd., Village Nara, P.O. Mansurpur.

Vaid Steels, Ind. Area, Aishbag, Lucknow 226004.

West Bengal

Alloy Steel Plant, Hindustan Steel Ltd., Durgapur 713204.

Bengal Ferro Alloy & Steel Ltd., Kaliani, Nadia Dist.

Burn & Co. Ltd., 20, N. Mukerjee Rd., Howrah 711101.

Electrosteel Castings Ltd., Kharda, B.T. Rd., Sukchar, 24 Parganas.

Guest, Keen, Williams Ltd., Steel Division, 97 Andul Rd., Howrah 711103.

Gontermann Peipers (I) Ltd., Diamond Harbour Rd., Amgachia, 24 Parganas.

G.E.C. of India Ltd., 6 Chittaranjan Ave. Calcutta 700013.

Hindustan Motors Ltd., P.O. Hindmotor, Uttarpara, Hooghly Dist.

Hindustan Iron & Steel Co., 68 Jessore Rd., Dum Dum 700028.

Howrah Iron & Steel Works (Pvt.) Ltd., 90 Benares Rd., Salkia, Howrah 711106.

Indian Iron & Steel Co. Ltd., Asansol, 713301.

Indo-Japan Steels Ltd., 5/1, G.T. Rd., Belur, Howrah 711101.

Kusum Steels (Pvt.) Ltd., 109, G. Ghose Rd., P.O. Belur Math, Howrah 711101.

Mining and Allied Machinery Corpn. Ltd., P.O. Durgapur 713201.

National Iron & Steel Ltd., P.O., Belur Math, Howrah.

Orient Steel & Wire Inds. Ltd., 6, G. Pathak Rd., P.O. Lilluah, Howrah.

Textile Machinery Corpn. Ltd., Steel Foundry Division Belgharia, Calcutta 700056.

STEEL FURNITURE & SECURITY EQUIPMENT

Andhra Pradesh

Andhra Steel Furniture Works, 7, M. Gandhi Rd., Secunderabad 500003.

Bhatia Steel Furniture Pvt. Ltd., New Bhoiguda, Secunderabad 500001.

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

Triniti Metal Ind., A-5, Co-op. Ind. Estate Ltd., Balanagar, Hyderabad 500037.

Assam

Assam Steel Products Pvt. Ltd., P.O. Jorhat 785001.

Delhi

Delhi Engg. Works Pvt. Ltd., Azadpur, Delhi 110033.

Delite Safe Works, Qutab Rd., Delhi 110006.

Fourbhai Engg. Works, G. T. Rd., Delhi 110032.

Garnish Traders Pvt. Ltd., 24, Kamla Market, New Delhi 110001.

Indian Safe Factory, 10254, Loha Mandi, Motia Khan, New Delhi 110007.

J. M. Chimanlal Agarwal & Co., 3676, Chawri Bazar, Delhi 110006.

Style Steel & Engg. Works, 60, M. M. Rd., New Delhi 110001.

Gujarat

Ahmedabad Eagle Engg. Enterprises Pvt. Ltd., 410, Near Rly. Crossing, Naroda, Ahmedabad 380001.
Chandan Metal Products Pvt. Ltd., Gorwa Rd., Vadodara 390003.
Jayendra Metal Ind. Ltd., Opp. Baroda College, Vadodara 390001.
Laxmi Steel Ind., Bhimnath Rd., Shastri's Baug, Sayajiganj, Vadodara 390005.
Security Equipment Manufrs., 47, Ind. Estate, Naroda, Ahmedabad 380001.
Zalawar Ind. Co-op. Society Ltd., 10, Sarvodaya Society, Surendra Nagar 363001.

Madhya Pradesh

Hindustan Steel Ind., Ind. Estate, Bhopal, 462001.

Maharashtra

Dhaga Steel Furniture Manufg. & Engg. Co., Guruwarpeth, Sholapur 413001.
Dwivedi Steelmade Pvt. Ltd., 230, Dr. A. Besant Rd., Bombay 400018.
Godrej Boyce Manufg. Co. Pvt. Ltd., Godrej Bhavan, Home St., Bombay 400001.
Govin's Safe Manufg. Co., 268, Kalbadevi Rd., Bombay 400002.
Gujarat Iron & Steel Works, 356, Sandhurst Rd., Bombay 400004.
Khinvasara Ind., S. No. 127, Akurdi, Pune 411019.
Khira Steel Works Pvt. Ltd., Sandhurst Bridge, Bombay 400007.
Methodex Business Systems, 33-A, New Marine Lines, Bombay 400001.
Metro Steel Products, Kalbadevi Rd., Bombay 400002.
New Gujarat Safe & Steel Works, Jogeshwari, Bombay 400060.
Office Equipment Co., of India, 10-C, Tulsipipe Rd., Bombay 400013.
Standard Steel Furniture Works, 91, Mohammedali Rd., Bombay 400007.
Steelage Ind. Ltd., Opp. Post Office, Mazagaon, Bombay 400010.
Steelmade, 230, Dr. A. Besant Rd., Bombay 400018.

Mysore

Jagadamba Galvanizing & Engg. Works, Bennarghatta Rd., Bangalore 560030.
Vijaya Trading Co., 306, Sub. Chatram Rd., Bangalore 560009.

Tamil Nadu

Aysha Ind. Trading Corpn., Ind. Colony, Tiruchirapalli 620001.
Bendweld Ind., 297, T. H. Rd., Madras 600001.
Dindigul Lock Workers, Co-op. Ind. Society Ltd., Malaipatli Rd., Dindigul 624001.
Tamilnad Thozhilagam, Sidco Plot-13, Ind. Estate, Ambattur, Madras 600058.

Uttar Pradesh

Bhatia Safe Works, Factory Area, Kanpur 208001.
Charan Safe Works Pvt. Ltd., 6-A, Ind. Estate, Kanpur 208001.

West Bengal

Acme & Co., 'Jain House', 8/1, Esplanade East, Calcutta 700001.
Anand Metal & Steel Works, 137, B. R. B. Basu Rd., Calcutta 700001.
Bengal Steel Furniture, P-40/45, Ezra St., Calcutta 700001.
Bungo Steel Furniture Ltd., 57, Diamond Harbour Rd., Calcutta 700023.
Calcutta Furniture Works Ltd., 27-E, B. Ghose St., Calcutta 700003.
The Commercial Medium Pvt. Ltd., 51, Chittaranjan Ave., Calcutta 700012.
Cromelite India Pvt. Ltd., P-35, India Exchange Place, Calcutta 700001.
DE's Lock Ind., 31, H. Dutta Lane, Calcutta 700033.
India Steel Manufg. Co., 95, M. Gandhi Rd., Calcutta 700037.
Joinery Manufg. Co., 77/1, Christopher Rd., Calcutta 700046.
Jupiter Steel Manufg. Co., 20/A, Brabourne Rd., Calcutta 700001.
Kedarnath Parsotamdas & Co., Pvt. Ltd., 37, N. Subash Rd., Calcutta 700001.
Metro Ind. Works, 94, B. Ghose Rd., Calcutta 700040.
Orient Safe & Cabinet Manufg. Pvt. Ltd., 132, B.R.B. Basu Rd., Calcutta 700001.
Roy-Singha Engg. Works, 639, Diamond Harbour Rd., Behala, Calcutta 700034.
Steel Products Ltd., 96, Garden Reach Rd., Calcutta 700027.

STEEL SPRINGS, WASHERS AND CIRCLIPS

Andhra Pradesh

Rockson Springs (India), 4-869, Abid St., Hyderabad 500001.

Delhi

Hindustan Spring Manufg. Co., 3740, Gali Hakiman, Delhi 110006.
Murarka Engg. Works, 28/37, Najafgarh Rd., New Delhi 110015.
Spring Makers Pvt. Ltd., 8707, Shidipura, New Delhi 110005.

Gujarat

Rajkot Spring Works, Lilavati Chambers, Dhebarbhai Rd., Rajkot 360001.

Maharashtra

Bharat Spring Pvt. Ltd., Shastri Marg, Bombay 400078.
Crescent Springs, Agra Rd., Thana 400601.
Fairifield Manufg. Co., Aman Chambers, 113, M. Permanand Marg, Bombay 400004.
Forbes Forbes Campbell & Co. Pvt. Ltd., Forbes Bldg., Homji St., Bombay 400001.
Imanes Pvt. Ltd., 94, S. Vivekanand Rd., Erla, Bombay 400057.
India Leaf Spring Manufg. Co. Pvt. Ltd., Mohatta Market, Palton Rd., Bombay 400001.
Kemen Pvt. Ltd., Harilela House, Opp. G.P.O., Bombay 400001.
Metropolitan Springs Ltd., Antop Hill, Wadala, Bombay 400031.

Premier Spring Works, 1/1, Kala Ind. Estate, Goregaon, Bombay 400063.
Rainbow Ind., 87, S. Vivekanand Rd., Bombay 400056.
Spring India, Sharda Estate, L. T. Rd., Borivli, Bombay 400092.
Spring & Auto Corpn., 3, Kala Bhavan, Mathew Rd., Bombay 400004.

Mysore

Canara Workshop Ltd., Kodialbail, Mangalore 575003.
Stumpp, Schnele & Somappa Pvt. Ltd., P. O. Box 78, Bangalore 560001.
Yoshama & Co. Pvt. Ltd., 33-5, Ind. Area, Rajaji Nagar, Bangalore 560010.

Rajasthan

Spring (Rajasthan) Manufg., Co., Tank Rd., Jaipur 302004.

Uttar Pradesh

Nanda Brush & Steel Spring Manufg. Co., Railway Rd., Prempuri, Meerut 250001.

West Bengal

Avon Springs & Accessories Pvt. Ltd., 12, India Exchange Place, Calcutta 700001.
Bhabataran Sarkar & Sons, 62/1A, N. Subash Rd., Calcutta 700001.
Bharat Spring Manufg. Co., 115, N. Subash Rd., Calcutta 700001.
Circlip & Oilseals Co. (Regd.), P. O. Box 603, Calcutta 700001.
Coventry Spring & Engg. Co. Pvt. Ltd., 23, G. Chandra Ave., Calcutta 700013.
Gautam Engg. & Trdg. Co., 87A, D. Mitra St., Calcutta 700006.
George Salter India Ltd., Titaghar, 24-Parganas Dist.
Henry Morgan & Co., 71A, N. Subash Rd., Calcutta 700001.
Hoare Miller & Co. Pvt. Ltd., 15, G. Chandra Ave., Calcutta 700013.
Indo British Spring Manufg. Co., 28, Christopher Rd., Calcutta 700014.
Joy Narayan Spring Manufg. Co., 103, Salkia School Rd., Howrah 711106.
Midland Spring Manufg. Co., 38, N. Subash Rd., Calcutta 700001.
New Dominion Engg. Works, 1/B, Pottery Rd., Calcutta 700015.
Pioneer Spring & Steel Concern Pvt. Ltd., Eagle House 4, Govt. Place North, Calcutta 700001.
Sanker Spring & Steel Co., 40, Strand Rd., Calcutta 700001.
Spring Manufrs. (India), 132, Bellaghatta Rd., Calcutta 700015.
Swami & Co., 40/1, Strand Rd., Calcutta 700001.

STEEL, STAINLESS

Andhra Pradesh

Deccan Stainless Steel & Wire Ind., Block B, 19/4, Ind. Area, Azmabad, Hyderabad 500020.
Vishalandhra Ind., Plot 1, Ind. Area, Azmabad, Hyderabad 500020.

Bihar

United Ind. Works, 18, Ind. Estate, Patna 800013.

Delhi

Ashok Manufg. Co. Pvt. Ltd., 37, Panchkuin Rd., New Delhi 110001.
Bajaj Metal Works, J-356, New Rajinder Nagar, New Delhi 110060.
Ind. Engg. Corpn. of India, 3, Badli Ind. Estate, P.O. Badli, Delhi 110042.
Nandi Agencies, C-29, Lajpat Nagar III, New Delhi 110024.
Shree Metal Works, 25/4, Block 'A', Connaught Place, New Delhi 110001.
The Shahdara Aluminium Factory, G. T. Rd., Shahdara, Delhi 110032.
United Engg. Corpn., XV/10159, D. B. Gupta Rd., Paharganj, New Delhi 110055.

Gujarat

Ambica Metal Pressing Ind., D/14, Ramkumar Mills Comp., Saraspur, Ahmedabad 380018.
Asha Metal Ind., Prajapatiwadi, Vijalpore, Navsari 396445.
Dasharathlal Chimanlal & Bros., Gujarat Pharmaceutical's Comp., Near Chamunda Mata Asarwa, Ahmedabad 380016.
Naran Lala Metal Works Pvt. Ltd., Near Rly. Stn., Navsari 396445.
Precision Engg. Ind., Kapadia Bldg., Lakkad Pitha, Madan Zampa, Vadodara 390001.
Shah Bhogilal Devchand, New Vasan Market, Manek Chowk, Ahmedabad 380001.
Shreyas Metal Ind., 1787/1-1, Bhathiara's Pole, Lunsawala, Ahmedabad 380001.

Haryana

Adarsh Metal Ind., Jagadhri.
Punjab Wire Netting Ind., Railway Rd., Narnaul 123001.

Himachal Pradesh

Shivalik Metal Ind., Bhadri Nagar, Paonta.

Jammu & Kashmir

Ess Tee Ind., 46, Ind. Estate, Jammu Tawi 180001.
National Kashmir Engg. Works, 46-D, Ind. Estate, Jammu 180001.

Kerala

A.K.P. Metals & Alloys, Christ College Rd., Irinjalakuda 680121.

Maharashtra

Ajanta Metal Ind., 382/84, Katha Bazar, Bombay 400009.
Amalgamated Universal Agencies Pvt. Ltd., 306, Lotus House, 33A, New Marine Lines, Bombay 400020.
Asian Metal Corpn., 142, Panjrapole Rd., Gulalwadi, Bombay 400004.
Best Silver Co., 34-F, M. Gandhi Rd., Vile Parle (East), Bombay 400057.
Bhandari Metal Ind., Main Rd., Bhandara 441904.
Bharat Metal Ind. (B'lore), 154, B. Khote St., Bombay 400003.
Bharat Metal Ind., 122-13/21, 3rd Panjrapole Lane, Bombay 400004.
Bhogilal & Co., 250-C, New Cross Rd., Opp. Metal Box Co., Worli, Bombay 400018.
Bihar Alloy Steels Ltd., Bombay-Agra Rd., Bhandup, Bombay 400078.

DEVIDAYAL STAINLESS STEEL INDUSTRIES PRIVATE LIMITED

Factory and Registered Office :
Tulsiram Gupta Mills, Darukhana,
Reay Road, Bombay 10.
Phones : 370518-19.

◆

Local Sales Office :
39, 2nd Bhoiwada, Bombay 2.
Phone : 336241.

◆

Manufacturers of :
A wide range of Kitchen utensils, Tableware, Electrical Kettles, Pocket Tiffin Carriers, Fabricated Stainless Steel Tanks for Food and Chemical Industries, Wash Basins and Hospital Equipment and Railway Fittings.

Deepak Metal Ind., 16, Bank St., Bombay 400001.

Deval Utensils Factory, 15/1, Karve Rd., Pune 411004.

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Hedavkar Metal Pressing Works, B. Shankar Cross Rd., Dadar, Bombay 400028.

Highland Metal Ind., B/24, Sarvodaya Nagar, Panjrapole Rd., Bombay 400004.

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India Metal Ind., Parekh Nagar, S. Vivekanand Rd., Kandivli (West), Bombay 400067.

Indo Overseas Metalware, 72-74, Kika St., Bombay 400004.

International Metal Ind., 128, Kansara Chawl, Bombay 400002.

Jain Metal Ind., 157, Panjrapole Rd., Bombay 400004.

Jajodia Alloy Steel Co., 63/69, Nagdevi Cross Lane, Bombay 400003.

Jay Metal Ind., H. Bapu Rd., Devchand Nagar, Malad (East), Bombay 400064.

Jogani Metal Ind., Prabhu Niwas, 148-A, V. Patel Rd., Bombay 400004.

Kanti Impex Trading Co., 125, N. Master Rd., Fort, Bombay 400001.

KC Metal Ind., 14/1, Jaihind Estate, Bhuleshwar, Bombay 400002.

Kishco Cutlery Manufg. Co., 54/56, Empire Bldg., 138, Dr. D. Naoroji Rd., Bombay 400001.

K. R. Metal Ind. (Pvt.) Ltd., C. Ashok Rd., Ashok Nagar, Kandivli (East), Bombay 400067.

Kwality Steel Corpn., Reti Bunder, Darukhana, Bombay 400010.

Lakhi Trading Co., Lakhi Ind. House, L. B. Shastri Marg, Bhandup, Bombay 400078.

Lallubhai Amichand Pvt. Ltd., 48/50, Kansara Chawl, Bombay 400002.

Lucky Stainless Steel Works, G-70, Sarvodaya Nagar, Panjrapole Rd., Bombay 400004.

Mahavir Metal Ind., 12, Gala Ind. Estate, Mulund (West), Bombay 400080.

Mahendra Metal Works, G-73, Sarvodaya Nagar, Panjrapole Rd., Bombay 400004.

Mitsui & Co. Ltd., (Mitsui Bussan Kaisha Ltd.), Manek Mahal, V. Nariman Rd., Bombay 400020.

Nagpal Private Ltd., 303, Arun Chambers, Tardeo Rd., Bombay 400034.

National Metal Ind., 15-A, Parel Village Rd., Parel, Bombay 400012.

N. M. Metal Ind., 20, Dadysett Agiary Lane, Bombay 400002.

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Vaidya Metal Pressing Works, 10-A, Tata Mills Comp., Near Elphinstone Bridge, Parel, Bombay 400012.

Vajeram Devchand & Bros., 21/23, Chira Bazar, Vijaywadi, Bombay 400002.

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Vinod Stainless Steel Works, 53, 2nd Bhoiwada, Bombay 400002.
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Mital Rolling Mills, Budh Bazar, Moradabad 244001.
M. S. Gupta & Bros., Rishikul Rd., Moradabad 244001.

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Ashok Metal Ind. Ltd., 157, N. Subash Rd., Calcutta 700001.
Bengal Ind. Corpn., 11, J. Jalan Rd., Lillooah (Howrah).
Bombay Stainless Steel House, P-37A, Kalakar St., Calcutta 700007.
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Indian Rolling Shutters & Engg. Works, 63, Rani Jhansi Rd., New Delhi 110055.
Machinewell Ind., 9-A, Connaught House, New Delhi 110001.
Metal Windows Corpn., 29-1, New Rohtak Rd., New Delhi 110005.
New Era Steel Co. (Opp. Mercantile Bank), Chandni Chowk, Delhi 110006.
Prakash & Co. (Regd.), 48, M.M. Rd., New Delhi 110055.

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Sen Harvic, 37, A. Rehman St., Bombay 400003.
Sentinel Windows & Structurals Pvt. Ltd., 96, Bora Bazar St., Bombay 400001.
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Zenith Iron Works, A. Rehman St., Bombay 400003.

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United Mysore Metal Works, B-79, Ind. Estate, Bangalore 560010.

Vijaya Trdg. Co., 306, S. Chatram Rd., Bangalore 560009.

Punjab

Chawla Rolling Shutters Ind., Opp. P.O. Rly. Rd., Jullundur 144001.

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United Rolling Shutter Manufrs., Khandak, Meerut 250001.

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Multiwyn Ind. Corpn., 61, Muktaram Babu St., Calcutta 700007.

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Kerala

Aluminium Ind. Ltd., No. 1, Ceramic Factory Rd., Kundara.

Madhya Pradesh

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Maharashtra

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Tejpauls Pvt. Ltd., 225, S. Tukaram Rd., Bombay 400009.

Tensile Steel Ltd., Shah House, Shiv Sagar Estate, Dr. A. Besant Rd., Bombay 400018.

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Hindustan Kokoku Wire Ltd., 22-B, Himalaya House, K. Gandhi Marg, New Delhi 110001.

Tamil Nadu

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Uttar Pradesh

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Krishna Sahakari Sakhar Karkhana Ltd., Rathare Sudruk Post, Shivnagar, Satara Dist.

Kumbhi Kasari Sahakari Sakhar Karkhana Ltd., Kuditne Kolhapur Dist.

Maharashtra Sugar Mills Ltd., P.O. Tilaknagar, Shrirampur, Ahmednagar Dist.

Malegaon Sahakari Sakhar Karkhana Ltd., Malegaon, Pune Dist.

Nipad Sahakari Sakhar Karkhana Ltd., Bhausahebnagar, Nasik Dist.

Phaltan Sugar Works Ltd., Sakharwadi, Satara Dist.

Pravara Sahakari Sakhar Karkhana Ltd., Pravaranagar, Ahmednagar Dist.

Rahuri Sahakari Sakhar Karkhana Ltd., Shri Shivajinagar, Ahmednagar Dist.

Ravalgaon Sugar Farm Ltd., Ravalgaon, Nasik Dist.

Sangamner Bhag Sahakari Sakhar Karkhana Ltd., Sangamner, Ahmednagar Dist.

Sanjivani (Takle) Sahakari Sakhar Karkhana Ltd , P.O. Sahajanandnagar, Ahmednagar Dist.

Saswad Mali Sahakari Sakhar Karkhana Ltd., P.O. Malinagar, Sholapur Dist.

Satara Sahakari Sakhar Karkhana Ltd., Bhun, Satara Dist.

Shetkari Sahakari Sakhar Karkhana Ltd., Sangli 416416.

Shri Changdeo Sugar Mills Ltd., P.O. Puntamba, Ahmednagar Dist.

Shree Dudhganga Vedganga Sahakari Sakhar Karkhana Ltd., Bidri, Kolhapur Dist.

Shri Ganesh Sahakari Sakhar Karkhana Ltd., P.O. Rajengaon Taluka 1, Kopargaon, Ahmednagar Dist.

Shree Panchganga Sahakari Sakhar Karkhana Ltd., Ganganagar, Kolhapur Dist.

Shree Shankar Sahakari Sakhar Karkhana Ltd., Sadashivnagar, Sholapur Dist.

Shree Warana Sahakari Sakhar Karkhana Ltd., Warananagar, Kolhapur Dist.

Shri Chhatrapati Shivaji Sahakari Sakhar Karkhana Ltd., Bhavaninagar, Pune Dist.

Shrigonda Sahakari Sakhar Karkhana Ltd., P.O. Belvandi Sugar Farm, Ahmednagar Dist.

Shri Panzarakan Sahakari Sakhar Karkhana Ltd., Bhadane, Dhulia Dist.

Shriram Sahakari Sakhar Karkhana Ltd., Phaltan, Satara Dist.

Shri Someshwar Sahakari Sakhar Karkhana Ltd., Nira, Pune Dist.

Somaiya Sugar Factory, Lakshmiwadi, Via Kopargaon, Ahmednagar Dist.

Tarna Shetkari Sahakari Karkhana Ltd., Tarnanagar, P.O. Dhoki, Osmanabad Dist.

Walawa Taluka Sahakari Sakhar Karkhana Ltd., Sakharle, P.O. Islampur, Sangli Dist.

Walchandnagar Ind. Ltd., P.O. Walchandnagar, Pune Dist.

Yeshwant Sahakari Sakhar Karkhana Ltd., Chintamaninagar, P.O. Theur, Pune Dist.

Yeshwant Sahakari Sakhar Karkhana Ltd., Yeshwant Nagar, Akluj, Sholapur Dist.

Mysore

Bellary Central Co-op. Stores Ltd., Sugar Factory, Kampli, Hospet Taluk, Bellary Dist.

Bidar Sahakara Sakhare Karkhane Ltd., Bidar, Hallikhed Village, Bidar Dist.

Gauri Bidanur Sahakari Sakhar Karkhana Ltd., Gauri Bidanur, Kolar Dist.

India Sugars & Refineries Ltd., Hospet 583201.

Krishna Sugar Mills Ltd., Krishna Kittur. Belgaum Dist.

Mysore Sugar Co. Ltd., Mandya 571401.

Pandavapura Sahakara Sakhar Karkhana Ltd., Pandavapura R.S., Mandya Dist.

Salar Jung Sugar Mills Ltd., Munirabad R.S.,Raichur Dist.

Shri Hiranyakeshi Sahakari Sakhar Karkhana, Shankeshwar, Belgaum Dist.

Tungabhadra Sugar Works, P.B. 2, Shimoga Dist.

Ugar Sugar Works Ltd., Ugar Khurd, Belgaum Dist.

Pondicherry

New Horizon Sugar Mills Pvt. Ltd., P.O. Kandamangalam, Sacrur (Ariyur).

Punjab

Amritsar Sugar Mills Co. Ltd., G. Trunk Rd., Amritsar 143001.

Batala Co.-op. Sugar Mills Ltd., Batala 143505, (Gurdaspur Dist.)

Doaba Co-op. Sugar Mills Ltd., Nawanshahr, Jullundur Dist.

Jagatjit Sugar Mills Co. Ltd., Phagwara, Kapurthala Dist.

Janta Co-operative Sugar Mills Ltd., Bhogpur Sriwal, Jullundur Dist.

Malwa Sugar Mills Co. Ltd., Dhuri, Sangrur Dist.

Morinda Co-op. Sugar Mills Ltd., Morinda, Rupar Dist.

Rajasthan

Ganganagar Sugar Mills Ltd., Sri Ganganagar Dist.

Mewar Sugar Mills Ltd., Bhupalsagar, Chitorgarh Dist.

Shree Bijoy Sugar Mills Ltd., Bijainagar, Ajmer Dist.

Shri Keshoraipatan Sahakari Sugar Mills Ltd., Bund Rd., Keshoraipatan.

Tamil Nadu

Al. Vr. St. Sugar Mills & Distillery, Techanallur, Tinnevelly Dist.

Amaravathi Co-op Sugar Mills Ltd., Maivadi Rd., R.S., P.O. Krishnapuram, Coimbatore Dist.

Ambur Co-op. Sugar Mills Ltd., P.O. Vadapudupet *via* Jolarpettai, North Arcot Dist.

Arooran Sugars Ltd., Vadapathimangalam, Thanjavur Dt.

Aruna Sugars Ltd., Eraiyur, South Arcot Dist.

Cauvery Sugar & Chemicals Ltd., Pettaivaytalai, Thiruchirapalli Dist.

Deccan Sugar & Abkhari Co. Ltd., P.O. Pugalur Sugar Factory, Thiruchirapalli Dist.

E. I. D. Parry Ltd., Nellikuppam, South Arcot Dist.

Kallakurichi Co-op. Sugar Mills Ltd., Moongilthuraippatu, Thiruvannamalai 606601.

Kothari Sugar & Chemicals Ltd., Kattur, Thiruchirapalli Dist.

Lakshmi Sugar Mills, Near Lakshmanatope, Tiruchendur Taluk, Tinnevelly Dist.

Madurantakam Co-op. Sugar Mills Ltd., P.O. Padalam, Chingleput Dist.

Madura Sugars Ltd., Pandiarajapuram, Madurai Dist.

National Co-op. Sugar Mills Ltd., 15-B, Mettupatti, P.O. Alanganallur, Madurai Dist.

Palar Sugar Pvt. Ltd., P.O. Sakthinagar *via* Erode, Coimbatore Dist.

Sakthi Sugars Ltd., P.O. Sakthinagar *via* Erode, Coimbatore Dist.

Salem Co-op. Sugar Mills Ltd., Pettaipalayam, Salem Dist.

South India Steel & Sugar Ltd., Mundiyampakkam, South Arcot Dist.

Uttar Pradesh

Ajudhia Sugar Mills, P.O. Rajaka Sahaspur, Moradabad Dist.

Amritsar Sugar Mills Co. Ltd., P.O., Rohanakalam, Muzaffarnagar Dist.

Bagpat Co-op. Sugar Mills Ltd., Bagpat, Meerut Dist.

Baijnath Balmukund Sugar Mills, Anwarganj, Kanpur Dist.

Balrampur Sugar Co. Ltd., Balrampur, Gonda Dist.

Basti Sugar Mills Co. Ltd., Basti 272001.

Bazpur Co-op. Sugar Factory Ltd., Bazpur, Nainital Dist.

Burhwal Sugar Mills Co. Ltd., P.O. Burhwal, Barabanki Dist.

Cawnpore Sugar Works Ltd., P.O. Gauri Bazar, Deoria Dist.

Daurala Sugar Works, Daurala, Meerut Dist.

Deoria Baitalpur Sindhi Sugar Mills Ltd., Deoria 274001.

Deoria Sugar Mills Ltd., Deoria 274001.

Dhampur Sugar Mills Ltd., Dhampur, Bijnor Dist.

Diamond Sugar Mills Ltd., Pipraich, Gorakhpur Dist. *H. Q.:* 4-E, Dalhousie Sq., 28, Stephen House, Calcutta.

Experimental Sugar Factory, National Sugar Institute, Nawabganj, Kanpur Dist.

Ganesh Sugar Mills, P.O. Anandnagar, Gorakhpur Dist.

Ganga Sugar Corpn. Ltd., Deoband, Saharanpur Dist.

Ganga Sugar Corpn. Ltd., Ram Kola, Deoria Dist.

Gobind Sugar Mills Ltd., P.O. Aira Estate, Lakhimpur Kheri Dist.

H. R. Sugar Factory Pvt. Ltd., Bareilly 243001.

Hindustan Sugar Mills Ltd., Golagokarannath.

Ishwari Khetan Sugar Mills Pvt. Ltd., Lakshmiganj, Deoria Dist.

Jaswant Sugar Mills Ltd., Meerut City, Meerut 250001.

Kamlapat Motilal Motinagar Sugar Mills, Motinagar P.O., Faizabad 224001.

Kesar Sugar Works Ltd., Beheri, Bareilly Dist. *H. O.:* New Great Insurance Bldg., 7, J. Tata Rd., Bombay 400020.

Kisan Co-op. Sugar Factory Ltd., Majhola, Pilibhit Dist.

Kisan Co-op. Sugar Factory Ltd., Sarsawa, Saharanpur Dist.

Kundan Sugar Mills Pvt. Ltd., P.O. Kundannagar, Moradabad Dist.

L. H. Sugar Factories & Oil Mills Pvt. Ltd., Kashipur, Nainital Dist.

L. H. Sugar Factories and Oil Mills Pvt. Ltd., Pilibhit, Pilibhit Dist. 262001.

Lakhmi Devi Sugar Mills Pvt. Ltd., Chhitauni, Deoria.

Lakhmi Sugar & Oil Mills Ltd., Hardoi, Hardoi Dist. 241001.

Lakhmiji Sugar Mills Co. Pvt. Ltd., Maholi, Sitapur Dist.

Lord Krishna Sugar Mills Ltd., Saharanpur 247001. *H. O.:* Chand Hotel, Chandni Chowk, New Delhi.

Madho Mahesh Sugar Mills Pvt. Ltd., Munderwa, Basti Dist.

M.P. Sugar Mills Pvt. Ltd., Gutaiya, P.B. 69, Kanpur.

Mahabir Sugar Mills Pvt. Ltd., Siswa Bazar, Gorakhpur.

Mahalakshmi Sugar Mills Co. Ltd., Iqbalpur, Saharanpur Dist.

Maheswari Khetan Sugar Mills Pvt. Ltd., Ramkola, Deoria Dist.

Mawana Sugar Works, Mawana, Meerut Dist.

Modi Sugar Mills, Modi Nagar, Meerut Dist.

Nawabganj Sugar Mills Co. Ltd., Nawabganj, Gonda Dist.

Neoli Sugar Factory, Manpur, Nagaria, P. O. Neoli, Etah Dist.

Oudh Sugar Mills Ltd., Hargaon, Sitapur Dist. *R. O.:* Industry House, 159, Churchgate Recl., Bombay 400020.

Pannijee Sugar & General Mills Co., Panninagar, Bulandshahr Dist.

Punjab Sugar Mills Co. Ltd., Ghugli, Gorakhpur Dist.

Purtabpore Co. Ltd., Pratappur, Deoria Dist.

R. B. Lachman Das Sugar & General Mills Pvt. Ltd., P.O. Jarwal Rd., Bahraich Dist. *H. O.:* 11, A. P. Sen Rd., Lucknow.

Rai Bahadur Narain Singh Sugar Mill Pvt. Ltd., Lhaksar, Saharanpur Dist.

Ratna Sugar Mills Co. Ltd., Shahganj, Jaunpur.

Raza Buland Sugar Co. Ltd., Rampur 244901.

Rosa Sugar Works, Rosa, Shahjahanpur Dist.

Saraya Sugar Mills Pvt Ltd., Sardarnagar, Gorakhpur Dist.

S. B. Sugar Mills, Bijnor Dist.

Seksaria Biswan Sugar Factory Pvt. Ltd., Biswan, Sitapur Dist.

Seksaria Sugar Mills Pvt. Ltd., Babhnan, Gonda Dist.

Shadilal Sugar & General Mills Ltd., Mansurpur, Muzaffarnagar.

Shanker Sugar Mills Ltd., Captainganj, Deoria Dist.

Sharda Sugar & Industry Ltd., Palia Kalan, Lakhimpur, Kheri Dist.

Shree Anand Sugar Mills, Khalilabad, Basti Dist.

Shree Krishna Deshi Sugar Works, Jhusi, Allahabad.

Shree Sardar Sugar Mills Co., Ramachandri, Gorakhpur, P.O. Siswa Bazar 273001.

Shree Sitaram Sugar Co. Ltd., P.O. Baitalpur, Deoria Dist.

Shri Janki Sugar Mills & Co., Doiwala, Dehra Dun.

Simbhaoli Sugar Mills Pvt. Ltd., P.O. Simbhaoli, Meerut Dist.

Standard Refinery & Distillery Pvt. Ltd., Unnao 209801.

Tribeni Deshi Sugar Works, Naini, Allahabad Dist.

Tulsipur Sugar Co. Ltd., Sitalpur Village, P.O. Tulsipur, Gonda Dist. *R. O.:* 9/1, Ramkumar Rakhit Lane, Calcutta 700007.

United Provinces Sugar Co. Ltd., P.O. Seorahi, Deoria Dist. *R. O.:* India Exchange, Calcutta 700001.

Upper Doab Sugar Mills Ltd., Shamli.

Upper Ganges Sugar Mills Ltd., Seohara, Bijnor Dist. *H O.:* 21-A, Bally Gunge Place, Calcutta 700019.

Upper India Sugar Mills Ltd., Khatauli, Muzaffarnagar Dist.

U.P. State Sugar Corpn. Ltd., Barabanki Unit, Barabanki Dist.

U.P. State Sugar Corpn. Ltd., Bhatni Unit, Deoria Dist.

U.P. State Sugar Corpn. Ltd., Khadda Unit, Deoria Dist.

U.P. State Sugar Corpn. Ltd., Mohiuddinpur Unit, Meerut Dist.

U.P. State Sugar Corpn. Ltd., Sakhoti Tanda Unit, Diwan Nagar, P.O. Sakoti Tanda, Meerut Dist.

Walterganj Factory, C/o Basti Sugar Mills Co. Ltd., Walterganj, Basti Dist. *R. O.:* 3, Cavalry Lines, Delhi 110007.

West Bengal

Motihari Sugar Factory, 5, Synagogue St., Calcutta.

National Sugar Mills Ltd., Ahmedpur, Birbhum Dist.

Purtabpore Co. Ltd., 9, Brabourne Rd, Calcutta.

Ramnugger Cane & Sugar Co. Ltd., P.O. Plassey, Nadia Dist. *H. O.:* 7, Wellesely Place, Calcutta.

Shree Radha Krishna Sugar Mills Ltd., Belganga, Murshidabad Dist.

Shree Sitaram Sugar Co. Ltd., Thapar House, 25, Brabourne Rd., Calcutta.

Tulsipur Sugar Co. Ltd., 27, Vivekananda Rd., Calcutta 700007.

SYNTHETIC FIBRES

Andhra Pradesh

Sirsilk Ltd., Sirpur-Kaghaznagar.

Madhya Pradesh

Gwalior Rayon Silk Manufg. (Wvg.) Co. Ltd., P.O. Birlagram 456331.

Maharashtra

Baroda Rayon Corpn. Ltd., Great Western Bldg., 130-132, Apollo St., Bombay 400001.

Century Enka Ltd., Belvandi House, 254-B, Dr. A. Besant Rd., Worli, Bombay 400025.

Century Rayon, Industry House, 159, Churchgate Recl., Bombay 400020.

Indian Rayon Corpn. Ltd., Industry House, 159, Churchgate Recl., Bombay 400020.

National Rayon Corpn. Ltd., Ewart House, Bruce St., Bombay 400001.

Rajasthan

Shriram Rayons, Shrirampur, Ind. Area P.O., Kota 324001.

Tamil Nadu

South India Viscose Ltd., Shanmuga Manram, Race Course, P.B. 1396, Coimbatore 641018.

Travancore Rayons Ltd., Indian Overseas Bank Bldg., 151-A, Mount Rd., Madras 600002.

Uttar Pradesh

J. K. Rayon, Kamla Tower, P.B. 25, Kanpur 208001.

West Bengal

Kesoram Rayon, P.O. Nayasarai, Hooghly Dist.

SYNTHETIC FIBRE SPINNERS

Delhi

Delhi Cloth & General Mills Co. Ltd., Bara Hindu Rao, Delhi 110006.

Gujarat

Gandhidham Spg. & Manufg. Co. Ltd., Adipur, Kutch.

Surat Textile Mills Ltd., Varachha Rd., Surat 395003.

Haryana

Bhiwani Textile Mills Ltd., P.O. Birla Colony, Bhiwani.

Elsons Cotton Mills Pvt. Ltd., 23rd Milestone, Mathura Rd., Ballabhgarh 121004.

Technological Institute of Textiles, P.O. Birla Colony, Bhiwani.

Jammu and Kashmir

Chenab Textile Mills Ltd., Kathua.

Madhya Pradesh

Bharat Commerce & Ind. Ltd., P.O. Birlagram 456331.
Jiyajeerao Cotton Mills Ltd., P.O. Birlanagar, Gwalior.

Maharashtra

Kiran Spg. Mills, Kolshet Rd., Thana 406001.
Madhavnagar Cotton Mills Ltd., Bank of Baroda Bldg., Palton Rd., Bombay 400001.
New City of Bombay Manufg. Co. Ltd., 63, Tukaram B. Kadam Marg, Bombay 400033.
Podar Mills Ltd., Podar Chambers, Fort, Bombay 400001.
Raghuvanshi Mills Ltd., 11-12, Haines Rd., Delisle Rd., Bombay 400013.

Mysore

Sujata Textile Mills, Nanjangud 571301.

Punjab

Bharat Commerce & Ind. Ltd., Rajpura.

Rajasthan

Aditya Mills Ltd., Madanganj, Kishangarh.
Jaipur Spg. & Wvg. Mills Ltd., Podarpua, Jaipur 302006.
Rajasthan Textile Mills, Bhawani Mandi.

Tamil Nadu

Narsimha Mills Pvt. Ltd., Kannampalayam, P.O. Sulur, Coimbatore Dist.
Prakash Mills Pvt. Ltd., P.O. Peelamedu, Coimbatore 641004.
Sitalakshmi Mills Ltd., Mill Premises, Madurai 625005.
Suguna Mills Pvt. Ltd., Sugunalaya, Bashkaralu Rd., R. S. Puram, Coimbatore 641002.
Vijaykumar Mills Ltd., Kalayamputhur, *via* Palani, Madurai Dist.

Uttar Pradesh

Elgin Mills Co. Ltd., 1/6, Smt. P. Bagla Rd., Kanpur 208001.
Modi Spg. & Wvg. Mills Co. Ltd., Modinagar.
Swadeshi Cotton Mills Co. Ltd., Swadeshi House, Civil Lines, Kanpur 208001.

West Bengal

Bilaspur Spg. Mills & Ind. Ltd., 5, Synagogue St., Calcutta 700001.
Birla Jute Manufg. Co. Ltd., P.O. Birlapur, 24-Parganas.
Eastern Spg. Mills Ltd., Pirgachha, P.O. Kadamgachhi, 24-Parganas.
General Ind. Society Ltd., 8, India Exchange Place, Calcutta 700001.
India Linoleums Ltd. (Victoria Division), 14, Dr. H. K. Chatterjee St., Ghusury, Howrah 711101.
Jayshree Textile & Ind. Ltd., Tantigaria, Midnapur 721101.
Shaktigarh Textile & Ind. Ltd., P.O. Barsul, Shaktigarh, Burdwan Dist.

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Assam Canvas Craft Ind., Ind. Estate, Gauhati, 781001.

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Bharat Tent House, Subzimandi, Delhi 110007.

Sarna Web-Equipment Manufg. Co., 7197, Kutab Rd., New Delhi 110055.

Maharashtra

Calcutta-Proofing Co., Chinchpokli Cross Lane, Bombay 400027.

Daisy Trdg. Corpn., 402, Navjivan Bldg., 125/27, K. Sayed St., Bombay 400003.

Danesh Waterproof Materials Pvt. Ltd., Bharat Ind. Block, T. Jivraj Rd., Bombay 400015.

Dwarkadas Velji Talpatriwala, 36, Essaji St., Bombay 400003.

Khimji Velji & Co., 62, Donald St., Bombay 400009.

Kilburn & Co. Ltd., Gresham House, Sir P. Mehta Rd., Bombay 400001.

M. V. Joshi & Co., (Talpatriwala), 31, Essaji St., Bombay 400003.

Morarji Peraj & Co., (Talpatriwala), 138, Masjid Bunder Rd., Bombay 400003.

Tamil Nadu

Binny & Co., 7, Armenian St., Madras 600001.

Calcutta Canvas Co., 144-A, Naick St., Madras 600001.

Uttar Pradesh

Kanpur Tent Factory, 89/208, Bansmandi, Kanpur 208001.

Kohli Bros. & Co., New Dalmandi, Kanpur 208001.

West Bengal

Bengal Tent Factories Pvt. Ltd., 18, N. Subash Rd., Calcutta 700001.

Bengal Waterproof Works Ltd., 41, Shakespeare Sarani, Calcutta 700016.

Betala Ind., 68D, N. Subash Rd., Calcutta 700001.

Birkmyre Bros Pvt. Ltd., 87, Stephen House, Calcutta 700001.

Calcutta-Proofing & Paulin Goods Manufg. Pvt. Ltd., 62, Alipore Rd., Calcutta 700027.

Gungadhur Banerjee & Pvt. Ltd., 'Bakulia House', Kidderpore, Calcutta 700023.

India Waterproof Ltd., 13, Brabourne Rd., Calcutta 700001.

Madhoprasad Mahabirprasad (Supplies) Pvt. Ltd., 4, Synagogue St., Calcutta 700001.

Modi Ind., 55, Canning St., Calcutta 700001.

New India Proofing Co., Calso Park, Calcutta 700039.

Shew Prosad Bishnu Prosad, 11, D. Rakhit Lane, Calcutta 700005.

Sircar Bros. Pvt. Ltd., 26-1, S. N. Roy Rd., Calcutta 700001.

Sunrise Trdg. Co., 3/C, N. Lohio Lane, Calcutta 700007.

Textile Wash Co., 113-C, N. Subash Rd., Calcutta 700001.

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Ultra Colour Corpn., Opp. Old Khadia Chowky, Sir Chunibhai Rd., Ahmedabad 380001.

Maharashtra

Ahura Chemical Products Pvt. Ltd., 84, Sion Rd., Sion (East), Bombay 400022.

Arkay Industries, No. 26, Tardeo Air Conditioned Market, Bombay 40034.

Ashok Bros., Room No. 3, Savla Chambers, 40, C. Patel St., Bombay 400001.

Associated Chemicals, 12-A, Mahendra Industrial Estate, Sion East, Bombay 400022.

Auxichem Room No. 60, 296, Samuel St., Bombay 400003.

C. D. Corpn., 48, Navandarvan Ind. Estate, Opp. Rallis Wolf, Mulund, Bombay 400080.

Chemicals & Allied Products, Beside Besant Pictures, Kolwada Borla Rd., Chembur, Bombay 400074.

Chemox Ind. Corpn., Noble Chambers, Parsee Bazar St., Bombay 400001.

Dai-Ichi Karkaria Pvt. Ltd., Liberty Building, New Marine Lines, Bombay 400020.

Das & Co., Das Chambers, Dalal St., Bombay 400001.

Dr. Yajnik's Kemicolor Ind. 195, Dr. D. Naoroji Rd., Bombay 400001.

Enterprise & Management Pvt. Ltd., 89, Medows St., Bombay 400001.

Eskay Chemical Corpn., 22-D, Parsee Bazar St., Fort, Bombay 400001.

Fibrolite Auxiliaries, 20, Juhu Lane, Andheri, Bombay 400058.

Gandhi Parekh Investment Corpn. Pvt. Ltd., Maker Bhavan No. 2, 18, New Marine Lines, Bombay 400020.

Gem Industries, 51K, Dockyard Rd., Bombay 400010.

H. D. Nariman & Sons, 104, Ghodbunder Rd., Santa Cruz (West), Bombay 400053.

Hico Products Pvt. Ltd., Mogul Lane, Mahim, Bombay 400016.

Hindustan Organic Products, Technicians' Shed No. 3, MIDC. Ind. Estate, Ambernath, Thana Dist. 400601.

Hoechst Dyes & Chemicals Ltd., Dugal House, Backbay Recl., Bombay 400020.

I. C. I. (I.) Pvt. Ltd., (Dyes Commercial Department). Crescent House, Ballard Estate, Bombay 400001.

Indian Gum Industries Ltd., Shroff Bhuvan, 157, P. D'Mello Rd., Bombay 400001.

Indokem Pvt. Ltd., Fort House, 221, Dr. D. Naoroji Rd., Bombay 400001.

3M Corpn. of India, 8, Owner's Court, Mogul Lane, Behind Mahim P.O., Bombay 400016.

Mazda Ind. Chemicals Pvt. Ltd., Mazda Ind. House, off Haines Rd., Worli Naka, Bombay 400018.

Mill Factors Corpn., Advani Chambers, Sir P. Mehta Rd., Bombay 400001.

Modern Chemical Corpn., 147, P. Vijay Estate, Bandar Gully, Mahim, Bombay 400016.

Modern Chemical Works, 22, Janki Niwas, N. C. Kelkar Rd., Dadar, Bombay 400028.

New India Trading Corpn., 8/10, Tamarind Lane, Bombay 400001.

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Sardesai Bros. Ltd., 82, Advent, 12-A, Gen. J. Bhosle Marg, Bombay 400001.

Sunbeam Minochem Pvt. Ltd., Ravel Chambers, 339/41, Samuel St., Bombay 400003.

Supertex (I), Corpn., 201, Kakad Chambers, 132, Dr. A. Besant Rd., Worli, Bombay 400018.

Surfactant Ltd., 401/405, Jolly Bhavan, 10, New Marine Lines, Bombay 400020.

Swastik Oil Mills Ltd., 13, Wittet Rd., Ballard Estate, Bombay 400001.

Tata Oil Mills Co., Ltd., Bombay House, 24, Bruce St., Bombay 400001.

Texspan, 9/E, Elphinstone Rd., Parel, Bombay 400012.

United Pestichem & Nonionics Pvt., Ltd., 84, Sion Rd., Sion East, Bombay 400022.

Victor Trading & Eng. Co., Victor House, Jacob Circle, Bombay 400011.

Vijaya Textiles, Dr. A. Nair Rd., Bombay 400011.

Uttar Pradesh

Associated Chemical Industries, 76/9-10, Block T, Factory Area, Fazalganj, Kanpur 208001.

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Robindra Textile Mills, 14/5, Mathura Rd., Faridabad 121001.

Maharashtra

Allovers & Lace Pvt. Ltd., Plot No. E 7/E 9, MIDC, Electronic Industrial Area, Pune-Nasik Rd., Bhosari, Pune Dist. 411001.

Amar Fabrics Corpn., 24, Chandar Mahal, Thakurdwar Rd., Bombay 400002.

Bombay Fancy Textile Co., 132, Ferguson Rd., Bombay 400013.

Cameo Fabrics Pvt. Ltd., Stock Exchange Bldg., Apollo St., Bombay 400001.

Doshi Ind. Corpn., 72 Champa Galli, Bombay 400002.

Embroteks Pvt. Ltd., 67, Bazargate St., Bombay 400001.

Fancy Corpn. Ltd., 16, Apollo St., Bombay 400001.

H. M. Silk Mills, 109, Laxmi Bhavan, Sion (West), Bombay 400022.

Hitex Emb. Pvt. Ltd., Silk House, 630 Girgaum Road, Bombay 400002.

Jasmine Mills Pvt. Ltd., Krishna Nivas, New Silk Bazar, Bombay 400002.

Jyoti Embroidery Pvt. Ltd., Neel Kanth, 98, Marine Drive, Bombay 400002.

Leela Scottish Lace Pvt. Ltd., Andheri-Kurla Rd., Bombay 400059.

Ludhiana Woollen & Silk Mills, 24 Chandar Mahal, Thakurdwar Rd., Bombay 400002.

Pravin & Co. Pvt. Ltd., 500 Kalbadevi Rd., New Resham Bazaar, Bombay 400002.

Ramanlal Pvt. Ltd., Kasturchand Mills Est., Dadar, Bombay 400028.

Shiv Embroidery Manufg. Co., " Shalimar, " Opp. Marine Lines Station, Bombay 400002.

Shree Krishna Textiles, Near Bhor Industries, Borivli East, Bombay 400092.

Swiss Embroidery Pvt. Ltd., 41, Empire Bldg. Dr. D. Naoroji Rd., Bombay 400001.

Vadilal Embroidery Unit, 177 Kalabadevi Rd., Bombay 400002.

Woodcraft Products Ltd., (Embroidery Division) Moti Mahal, 195, Churchgate Recl., Bombay 400020.

Mysore

The Bangalore Embroidery Works Pvt. Ltd., 256 Upper Place Orchards, Bangalore 560006.

New Delhi

Krishna Embfastners, Sunlight Bldg., Asafali Rd, P.B. 528, New Delhi 110001.

Shiv Silk Mills, 71/A, Najafgarh Rd., New Delhi 110015.

Punjab

Indo Knit & Emb. Pvt. Ltd., 8, The Mall, Amritsar 143001.

Tamil Nadu

S. S. M. Brothers Pvt. Ltd., P. B. 8, P. O. Komarapalayam, Via Erode, S. Rly.

Veena Textiles Pvt. Ltd., P. B. 110, 9 Raja St., P. O. Komarapalayam, Via Erode.

TEXTILE MACHINERY

Andhra Pradesh

Swastik Bobbins Manufg. Co. (Pvt.) Ltd., 7/1, Azamabad Ind. Area, Hyderabad 500001.

Gujarat

Ahmedabad Victoria Iron Works Co. Ltd., Dudheshwar Rd., Ahmedabad 380001.

Amee Eng., Jal Darshan, Ashram Rd., Ahmedabad 380009.

Ara Ind., Opp. Chisti Chambers, Outside Shahpur Gate, Ahmedabad 380001.

Bhagvati Undercasing Manufg. Works, Tavdipura Rd., Ahmedabad 380004.

Bharat Ind. Girdhar Chambers, Gandhi Rd., Ahmedabad 380001.

Cambay Saw Mills, Madan Zampa Rd., Vadodara 390001.

C. B. Sutaria Bros., Cross Lane, Ahmedabad 390002.

Honest Trading Co., Mahadev Nagar, Bilimora 396321.

Indequip Engg. Ltd., Reid Rd., Railwaypura, Ahmedabad 380002.

Ind. Machinery Manufrs. Pvt. Ltd., Near Ahmedabad New Cotton Mills, Off Amraiwadi Rd., Ahmedabad 380008.

Karsandas Bachardas & Sons, Jaldarshan, Ashram Rd., Ahmedabad 380009.

Peers Ind. Engineers Pvt. Ltd., Station Rd., Navsari 396445.

Pioneer Engg. Works, Amdupura, Naroda Rd., Ahmedabad 380002.

Sarabhai Machinery Division, C/o. Bakubhai Ambalal Pvt. Ltd., Shantisadan Estate, Mirzapur Rd., Ahmedabad 380001.

Sen & Mettenheimer Pvt. Ltd., Cama Hotel Bldg., Khanpur, Ahmedabad 380001.

Shri Ambica Machinery Manufrs., Near Kankaria Loco Siding, Ahmedabad 380008.

Shri Madhusudan Textiles, A.P. Ind. Estate, Near Gujarat Housing Colony, Ahmedabad 380021.

Standard Materials Co., Narottam Bldg., Kapasia Bazar, Ahmedabad 380002.

Suessen Textile Bearings Ltd., Near Makarpura, Pratapnagar, Vadodara 390004.

Swastik Engg. & Manufg. Co. Pvt. Ltd., Bahucharaji Rd., Vadodara 390001.

Swastik Textile Trading Co. Pvt. Ltd., Amraiwadi, Ahmedabad 380008.

Tarkes Engg. Works, H. A. Market, Kapasia Bazar, Ahmedabad 380002.

Textile Appliances & Instruments Co., Pvt. Ltd., 81, Alkapuri, Vadodara 380001.

Winding Spares Machinery Co., 4, Textile Technicians Society, Navrangpura, Ahmedabad 380009.

Madhya Pradesh

Central India Machinery Manufg. Co. Ltd., P.O. Birlanagar, Gwalior.

Maharashtra

Associated Bearing Co. Ltd., Mahatma Gandhi Memorial Bldg., N. Subash Rd., Bombay 400002.

Baltimore Ind., 84-Imamwada Rd., Sabu Sidiq Hospital Comp., Bombay 400009.

Binani Machinery Corpn., Andheri-Kurla Rd., P.O. J.B. Nagar, Andheri East, Bombay 400059.

TEXTILE MACHINERY COMPONENTS

SUESSEN TEXTILE BEARINGS LIMITED

Registered Office and Factory:
Bombay-Ahmedabad National Highway No. 8,
Baroda-9.

Head Sales Office:
Dhanraj Mahal, Chhatrapati Shivaji Maharaj Marg
(Apollo Bunder Road),
Bombay-1.

Manufacturers of:
Textile Spinning Machinery Components in technical collaboration with Messrs. Spindelfabrik Suessen, Schurr, Stahlecker & Grill GmbH., Suessen, West Germany and Water Pump Bearings for Automobiles etc.

Board of Directors:
A. N. Lalbhai (*Chairman*)
C. M. Khatau
H. C. Kothari
H. C. Mahindra
J. P. Thacker
Hans Stahlecker
R. A. Shah
M. C. Shah
M. D. Mehta
C. J. Mehta
A. E. W. Speck (*Alternate Director*)
B. Devereux (*Jt. Mg. Director*)
S. M. Mehta (*Jt. Mg. Director*)

Calico Ind. Engrs., Chakala Works, Andheri, Bombay 400069.

Chetan Trading Co., 272, Narsi Natha St., Bombay 400009.

Cooper Engg. Ltd., 658, J. Maharaj Rd., Pune 411004.

Copper Rollers Pvt. Ltd., Gupte Mills Estate, Darukhana Reay Rd., Bombay 400010.

Dalal Engg. Pvt. Ltd., 314, Jolly Bhavan, 10, New Marine Lines, Bombay 400020.

Daver-NGM Pvt. Ltd., 70, Lakshmi Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.

Electronic & Engg. Co., Bhatawadekar Bros. Bldg., Shantinagar, Vakola, Santacruz East, Bombay 400055.

Famatex India Pvt. Ltd., Manpada Rd., P.O. Dombivli, Thana Dist.

Guest, Keen, Williams Ltd., L. B. Shastri Marg, Bhandup, Bombay 400078.

Harish Textile Engrs. Pvt. Ltd., 19, Parsi Panchayat Rd., Andheri East, Bombay 400069.

Inarco Ltd., Advent, 12-A, Foreshore Rd., Bombay 400001.

Indian Card Clothing Co. Pvt. Ltd., Bombay-Pune Rd., P.O. Penicillin Factory, Pimpri, Pune 411018.

Lathia Rubber Manufg. Co. Pvt. Ltd., Kurla-Andheri Rd., Sakinaka, Bombay 400072.

Machinery Manufrs. Corpn. Ltd., Eucharistic Congress Bldg. Nos. 2, 5, Convent St., Bombay 400001.

Mather Greaves Ltd., Hamilton House, Graham Rd., Ballard Estate, Bombay 400001.

National Machinery Manufrs. Ltd., P.B. No. 3, Kalwa, Thana 400605.

New Standard Engg. Co. Ltd., N.S.E. Estate, Ram Mandir Rd., Goregaon East, Bombay 400063.

T. MANEKLAL
MANUFACTURING CO. LTD.

Pioneers in
Textile Processing Machinery
and Rubber Technology

Regd. Office:
Vaswani Mansions, Dinshaw Vachha Road,
Bombay 400 020
Phone: 295091 (10 lines)

Factory & Sales:
(RUBBER DIVISION)
Saki Naka, Kurla-Andheri Road,
Bombay 400 072
Phone: 551931 (5 lines)

Sales:
(TEXTILE MACHINERY DIVISION)
Jadhavji Mansion, 3 Cuffe Parade,
Bombay 400 005
Phone. 214476, 215451

Ahmedabad Office:
Vatva, Taluka Dascroi, Ahmedabad
Phone: 87551 (5 lines)

Manufacturers of:
Wet Processing Machinery for Cotton and and Synthetic Textiles, Rubber/Ebonite Rollers, Rubber Blankets, Rubber Expansion Joints and Industrial Rubber Lining.

Adroit-TM-439

Premier Ind. Works, 45, Taikalwadi Lane, Off L. Jamshedjee Rd., Mahim, Bombay 400016.

Shakti Textile Engrs. Pvt. Ltd., Manohar Ind. Estate, Chincholi Bunder Rd., Malad, Bombay 400064.

Special Steels Ltd., Dattapara Rd., Borivli East, Bombay 400092.

Standard Fabricators (I) Pvt. Ltd., Co-op. Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.

Star Textile Engg. Works Ltd., Dhanraj Mahal, Shivaji Marg, Bombay 400001.

T. Maneklal Manufg. Co. Ltd., Vaswani Mansion, D. Vachha Rd., Bombay 400020.

Texind Corpn. Pvt. Ltd., Kermani Bldg., Sir P. Mehta Rd., Bombay 400001.

Texspanes Traders, B 16/18, Nobel Chambers, S. A. Brelvi Rd., Bombay 400001.

Textile Supplies Syndicate (I) Pvt. Ltd., India House, Opp. G.P.O., Bombay 400001.

Voltas Ltd., Elphinstone Bldg., 6, V. Nariman Rd., Bombay 400001.

Zell-Ate Ltd., Indian Globe Chambers, Fort St., Bombay, 400001.

Mysore

Mysore Machinery Manufrs. Ltd., 5th Mile Mysore Rd., Bangalore 560026.

Vijay Bobbins Ind. (Pvt.) Ltd., 54/27, Khader Sheriff Gardens, Bangalore 560027.

Tamil Nadu

Allied Engg. Ind., 8B/3, Mettupalayam Rd., Saibaba Mission Post, Coimbatore 641011.

Kunal Engg. Co. Ltd., 22 Ind. Estate, Ambattur, Madras 600058.

Lakshmi Card Clothing Manufg. Co. Pvt. Ltd., P.O. Kuppuswamy Naidupuram, Palladam Taluk, Coimbatore Dist.

Lakshmi Machine Works Ltd., Perianaickenpalayam, P.O. S.R.K. Vidyalaya, Coimbatore 641020.

Madras Spindle Co. Ltd., 3, C. V. Raman Rd., Alwarpet, Madras 600018.

Premier Textile Products, Plot No. 21, Tea Estates of India Compound, Race Course, Coimbatore 641018.

West Bengal

Indian Pin Manufg. Co. Pvt. Ltd., World Trade Centre, 14/1B, Ezra St., Calcutta 700001.

Nipha Machinery Manufrs. Pvt. Ltd., 25, N. Subash Rd., Calcutta 700001.

Spinning Accessories Pvt. Ltd., Laha Point House, 7, Chittaranjan Ave., Calcutta 700013.

Spin-Well Pvt. Ltd., 6, Dilarjang Rd., Cossipore, Calcutta 700002.

Textile Machinery Corpn. Ltd., P.O. Belgharia, Calcutta 700056.

ZELL-ATE LIMITED

Manufacturers of:

High Speed Multi Cylinder Drier Sizing Machines for Cotton, Jute, Rayon & Silk Industries *in collaboration with* Messrs. Maschinenfabrik Zell, 7867 Zell (Wiesental) Postfach Nr. 25, West Germany.

Metallic Card Clothing and Interlocking Saw Tooth Licker-in Wire *in collaboration with* Messrs. Seelemann—Baumann G.m.b.H., 7261 Oberhaugstett/Wurtt, Postfach Calw 147, West Germany.

Registered Office:

Indian Globe Chambers, 1st Floor, Fort Street, Bombay-1.
(*Phones:* 262736, 265773)

Factory:

Ryewoods, Lonavla, Dist. Poona.

Board of Directors:

Shri N. B. Jeejeebhoy, *Chairman.*
Shri A. K. Bhagwati, *Technical Director.*
Shri D. P. Gandhi, *Commercial Director.*
Shri V. R. Nimbkar.
Shri M. B. Jambhekar.
Smt. Jer A. Dhondy.
Shri R. G. Chandorkar.
Shri M. A. Abbasi.
Shri J. C. Agrawal.

Secretary: Mr. K. Sankara Raman.

TEXTILE MACHINERY AND SPARES

Gujarat

Chandabhai & Sons, 2058 Dariapur, Dabgharwad, Ahmedabad 380001.

Chemitex Machinery, 69 Union Co-op. Ind. Estate, Rakhial Rd., Ahmedabad 380001.

Continental Ind., Harisadan, Khadia Char Rasta, Ahmedabad 380001.

Eversharp Textile Corpn., 1075 Talia's St., Sarangpur, Ahmedabad 380001.

Gujarat Corpn. India Pvt. Ltd., Naroda Rd., Ahmedabad 380002.

H. Mansuri & Sons, Dariapur, Dabgarwad, Ahmedabad 380001.

Hides & Leather Products Pvt. Ltd., Reid Rd., Ahmedabad 380002.

India Reeds Manufg. Co., Rakhial Rd., Ahmedabad 380021.

K. K. Engg. Works, Tawdipura, Shahibag, Ahmedabad 380004.

Mashruwala & Bros., Vohra Bldg., Kapasia Bazaar, Ahmedabad 380002.

Metal Moulders Pvt. Ltd., Dudheswar Rd., Ahmedabad 380001.

Metro Wood & Engg., Works Pvt. Ltd., "NK" House, Ashram Rd., Navrangpura, Ahmedabad 380009.

Mistry Ambalal Jetharam Iron & Brass Factory, Ghee Kanta Rd., Ahmedabad 380001.

National Machinery Manufg. Works, Tawdipura, Ahmedabad 380004.

New India Pickers Works, Near Khandni Sheri, Jamalpur, Ahmedabad 380001.

Paramount Textile Agency, H.A. Cloth Market, Kapasia Bazar, Ahmedabad 380001.

Pickers Ltd., Ellis Bridge, Ahmedabad 380006.

Suessen Textile Bearings Ltd., National Highway No. 8, Vadodara 390009.

Maharashtra

Bharat Ind., R. No. 320, Bharat Ind. Estate, Jivraj Rd., Sewree, Bombay 400015.

Eastern Card Clothing Co. Pvt. Ltd., Lal Chimney, Dr. Nair Rd., Bombay 400011.

Laxmi Paper Box Works, 49, Krishna Nagar, Parel, Bombay 400012.

Mahaveer Textile Traders, 98A, A. Dady St., C. P. Tank, Bombay 400004.

Mather Greaves Ltd., Chinchwad, Pune 411019.

Perfect Paper Cone & Tube Manufg. Co., 61/16, Tulsi Niwas, D Rd., Churchgate, Bombay 400020.

Star Textile Engg. Works Ltd., Dhanraj Mahal, C. Shivaji Maharaj Marg, Bombay 400001.

Timbco Textile Ind., 22, Bombay Timber Mkt., Reay Rd., Bombay 400010.

Western India Tanneries Ltd., 2A, Dharavi Rd., Bombay 400017.

West Bengal

Bharat Ind. Corpn. Pvt. Ltd., 13, N. Kar Lane, Salkhia, Howrah 711106.

TEXTILE MILLS

Andhra Pradesh

Abirami Cotton Mills Pvt. Ltd., Sulurpeta, Nellore Dist.

Adoni Cotton Mills Ltd., Alur Rd., Adoni 518301.

Adoni Spinning and Weaving Co. Ltd., Alur Rd., Adoni 518301.

Andhra Cotton Mills Ltd., Shriniwasa Nagar, Proddatur, Cuddapah Dist. 516360.

Andhra Co-op. Spinning Mills Ltd., Timmanchera, Guntakal, Anantpur Dist. 515801.

Azam Jahi Mills Ltd., Narsampet Rd., Warangal.

Chirala Co-op. Spinning Mills Ltd., Amodapatnam, Guntur Dist.

Chittoor Textiles Ltd., Madras-Bangalore Trunk Rd., Chittoor 517001.

Dewan Bahadur Ramgopal Mills Ltd., Elchiguda, Secunderabad.

Hemalatha Textiles Ltd., Pedakakani, Guntur 522001.

Jayanti Ramchandrappa Shetty Mills Pvt. Ltd., Raydurg.

Karimnagar Co-op. Spinning Mills Ltd., Ramagunda.

Natraj Spinning & Weaving Mills Ltd., Nirmal, Adilabad Dist.

Penjuin Textiles Ltd., Tarnaka Uppal, Hyderabad 500039.

Rayalaseema Mills Ltd., Rayanagar, Adoni, Kurnool Dist. 518301.

Sarvaraya Textiles Ltd., Beach Rd., Kakinada 533001.

Sarvaraya Textiles Ltd., V.T. Agraharam, Vizianagram 531203.

Sree Akkamamba Textiles Ltd., Venkatarayapuram, Tanuku, W. Godavari Dist.

Sri Venkatachalapathi Mills Ltd., Padmavathinagar, Tirupati 517501.

Super Spinning Mills Ltd., Kirikera, Hindupur, Anantpur Dist. 515201.

Suryalakshmi Cotton Mills Ltd., Mahbubnagar 509001.

Telangana Spinning Weaving Mills Ltd., Balanagar, Hyderabad 500003.

Vijaya Spinning Mills Ltd., Ganguru, Krishna Dist.

Yemmiganur Spinning Mills Ltd., Yemmiganur, Bellary.

Assam

Assam Cotton Mills, Singlimara Rd., Chariduwar, Darang.

Associated Industries (Assam) Ltd., Chandrapur, Kamrup Dist.

Bihar

Bihar Co-op. Weavers Spinning Mills Ltd., Mokameh, Patna.

Dumeron Textiles Ltd., Dumaraon, Bihar.

Mahalakshmi Fibres & Ind. Ltd., Ormanjhi, Ranchi.

Delhi

Ajudhia Textile Mills Ltd., (formerly Goenka Cotton Spinning & Weaving Mills Co. Ltd.), Azadpur, P.O. Ajudhia Mills, Delhi 110033.

Birla Cotton Spinning & Weaving Mills Co. Ltd., (formerly Hanuman & Mahadeo Spinning & Weaving Mills), Birla Lines, Delhi 110007.

Delhi Cloth & General Mills Co. Ltd., Nos. 1 to 3, Bara Hindu Rao, Delhi 110006.

Delhi Cloth & General Mills Co. Ltd., Najafgarh Rd., New Delhi 110043.

Goa

Chowgule Textile Mills Ltd., Quepem, Goa.

Chowgule & Co. Pvt. Ltd., Marmagao, Goa 403601.

Goa Textiles Ltd., 259, Marmagao, Goa 403601.

Gujarat

Ahmedabad Advance Mills Ltd., Outside Delhi Gate, Ahmedabad.

Ahmedabad Cotton Manufg. Co. Ltd., (Bagicha Mills) No. 17 Outside Sarangpur Gate, Ahmedabad 380001.

Ahmedabad Cotton Manufg. Co. Ltd., No. 2 (formerly Himabhai Manufg.), Outside Sarangpur Gate, Ahmedabad 380001.

Ahmedabad Jupiter Spinning, Weaving & Manufg. Co. Ltd., (Jupiter Mills No. 1), Dadhechi Rd., Ahmeddabad.

Ahmedabad Kaiser-I-Hind Mills Co. Ltd., (formerly Ahmedabad Merchants Spinning Mills Co. Ltd.), Outside Raipur Gate, Ahmedabad 380022.

Ahmedabad Laxmi Cotton Mills Co. Ltd., Outside Raipur Gate, Ahmedabad 380022.

Ahmedabad Manufg. & Calico Printing Co. Ltd., (Calico Mills), Outside Jamalpur Gate, Ahmedabad 380022.

Ahmedabad Manufg. & Calico Printing Co. Ltd., (Jupiter Mills) Outside Dariapur Gate, Ahmedabad 380016.

Ahmedabad New Cotton Mills Co. Ltd., Near Khokhra Mehmedabad, Ahmedabad 380008.

Ahmedabad New Textile Mills Co. Ltd., No. 1, Outside Raipur Gate, Ahmedabad 380022.

Ahmedabad New Textile Mills Co. Ltd., No. 2, (formerly Javeri Spinning & Manufg. Co. Ltd.), Outside Raipur Gate, Ahmedabad 380022.

Ahmedabad Shri Ramakrishna Mills Co. Ltd., Gomtipur Rd., Ahmedabad 380021.

Ajit Mills Ltd., Rakhial Rd., Ahmedabad 380021.

Aruna Mills Ltd., Naroda Rd., Ahmedabad 380002.

Arunoday Mills Ltd., Morvi 363641.

Arvind Mills Ltd., Naroda Rd., Ahmedabad 380002.

Aryodaya Ginning & Manufg. Co. Ltd., (formerly Ahmedabad Yapar Ootejack Spg. & Manufg. Co. Ltd.), Asarva Rd., Ahmedabad 380016.

Aryodaya Spinning & Weaving Co. Ltd., Nos. 1 & 2, Asarwa Rd., Ahmedabad 380016.

Asarwa Mills Ltd., Asarwa Rd., Ahmedabad 380016.

Asoka Mills Ltd., Naroda Rd., Ahmedabad 380002.

Baroda Spinning & Weaving Co. Ltd., Near Badra Pani Gate, Vadodara 390001.

Bechardas Spinning and Weaving Mills Co. Ltd., Raikhad, Ahmedabad.

Bhalakia Mills Co. Ltd., Kankaria Rd., Ahmedabad 380008.

Bharat Suryodaya Mills Co. Ltd. (formerly India Spinning and Weaving Co. Ltd.), Near Jagnath Mahadev, Ahmedabad.

Bharat Vijaya Mills Ltd. (formerly Bharat Vijaya No. 2), Seven Garnala, Kalol, N. Gujarat 382721.

Bihari Mills Ltd., Mithipur Khokhra, Mehmedabad, Ahmedabad 380008.

Broach Textile Mills Pvt. Ltd. (formerly Gopal Mills Co. Ltd.), M. Gandhi Rd., Bharuch 392001.

Commercial Ahmedabad Mills Co. Ltd., Near Idgah Chowki, Asarwa, Ahmedabad 380016.

Fine Knitting Co. Ltd., Near Chamunda Mata, Asarwa Rd., Ahmedabad 380016.

Gaekwar Mills Ltd., Bilimora, Valsad 396001.

Gandhidham Spinning & Manufg. Co. Ltd., Adipur, Kutch.

Girdhardas Harivallabdas Mills Ltd., (formerly Rajnagar Mill No. 2), Near Girdhanagar Rly. Crossing, Ahmedabad.

Kanti Cotton Mills Pvt. Ltd., (formerly Wadhwan Camp Mills) Mill Rd., Surendranagar 363001.

Mafatlal Fine Spinning & Manufg. Co. Ltd., Vejalpure Rd., Navsari.

Mahalaxmi Mills Ltd., Vartej Rd., Bhavnagar.

Maharana Mills Pvt. Ltd., Porbunder, Saurashtra.

Mahendra Mills Ltd. No. 1 & 2, Kalol, N. Gujarat 382721.

Maheshwari Mills Ltd. (formerly Ahmedabad Cotton & Waste Manufg. Co. Ltd.), Shahibag Rd., Ahmedabad 380004.

Maneklal Harilal Spinning & Manufg. Co. Ltd., Saraspur, Ahmedabad 380018.

Manjushri Textiles (formerly Bharatkhdan Textile Manufg. Co. Ltd., Nos. 1 & 2), Shahibag, Ahmedabad 380004.

Marsden Spinning & Manufg. Co. Ltd., Rakhial Rd., Ahmedabad 380021.

Mihir Textiles Ltd. (formerly Ahmedabad Jaya Bharat Cotton Mills Ltd., Bharat Laxmi Cotton Mills Ltd. and New Shorrock Spinning & Manufg. Co. Ltd.), Mithipur, Ahmedabad 380008.

Monogram Mills Co. Ltd., Rakhial Rd., Ahmedabad 380021.

Nagri Mills Co. Ltd., Rajpur Rd., Ahmedabad 380021.

Narmada Roo Utpadkmi Sahakari Spinning Mills Ltd., Bharuch 392001.

Navsari Cotton & Silk Mills Ltd., (formerly New Darbanga Mills), Vijalpore Rd., Navsari, Surat 396445.

Navjiwan Mills Pvt. Ltd., Kalol, Mehsana Dist. 382721.

Nevasara Mills Pvt. Ltd., (formerly Asarwa Mill No. 2), Saraspur, Ahmedabad 380018.

New Commercial Mills Co. Ltd., Naroda Rd., Ahmedabad 380002.

New Gujarat Cotton Mills Ltd., Naroda Rd., Ahmedabad 380002.

New India Industries Ltd., Jetalpur Rd., Vadodara 390005.

New Jehangir Vakil Mills Co. Ltd., Nilambag Rd., Bhavnagar 364001.

New Maneckchowk Spinning and Weaving Co. Ltd., Opp. Idgah Gate, Post Asarva, Ahmedabad 380016.

New Rajpur Mills Co. Ltd. (formerly Rajpur Mills Ltd.), Gomtipur Rd., Ahmedabad 380021.

New Shorrock Spinning & Manufg. Co. Ltd., Asarwa Rd., Ahmedabad 380016.

New Shorrock Spinning & Manufg. Co. Ltd., (formerly Nadiad Swadeshi Spinning, Weaving & Manufg. Co. Ltd.) Kapadwanj Rd., Nadiad, Kaira Dist. 387001.

New Swadeshi Mills of Ahmedabad Ltd. (formerly Ahmedabad Spinning & Manufg. Co. Ltd.), Naroda Rd., Ahmedabad 380002.

Newasarwa Manufg. Co. Ltd. (formerly Harivallabhdas Mulchand Mills Co. Ltd.), Outside Dariapur Gate, Ahmedabad 380016.

Niranjan Mills Pvt. Ltd. (formerly Tikayaram Mills), Falsawadi Rd., Surat 395003.

Nutan Mills Ltd., *via* Vora's Roja Anil Rd., Ahmedabad 380002.

Patel Mills Co. Ltd. (formerly Gomtipur Spinning, Weaving & Manufg. Co. Ltd.), Gomtipur Rd., Ahmedabad 380021.

Petlad Bulakhidas Mills Co. Ltd., Opp. Petlad Station, *via* Anand, Kaira.

Raipur Manufg. Co. Ltd., Outside Saraspur Gate, Ahmedabad 380021.

Rohit Mills Ltd., Khokhra Mehmedabad, Ahmedabad 380008.

Rustom Jehangir Vakil Mills Co. Ltd., Dudheshwar Rd., Ahmedabad 380001.

Sabharkuntha Jilla Ru Utpadakani Co-op. Spinning Mills, Idar Rd., Himatnagar 383001.

Sadhana Textile Mill Pvt. Ltd., Ranjit Sagar Rd., Jamnagar 361001.

Sarangpur Cotton Manufg. Co. Ltd. (No. 1), Outside Raipur Gate, Ahmedabad 380022.

Sarangpur Cotton Manufg. Co. Ltd. (No. 2), Amraiwadi Rd., Ahmedabad 380008.

Saraspur Mills Ltd. (formerly Saraspur Manufg. Co. Ltd.), Saraspur Rd., Ahmedabad 380018.

Saurashtra Co-op. Spinning Mills Ltd., Limbdi, Saurashtra.

Sayaji Mills No. 1, Near Old Railway Station, Vadodara 390003.

Shri Amarsinhji Mills Ltd., Seth Jayantilal Marg, Wankaner, Saurashtra.

Shri Ambika Mills Ltd. No. 1, Kankaria, Ahmedabad 380008.

Shri Ambika Mills Ltd. No. 2 (formerly Chandrakant Mills Ltd.), Kankaria Rd., Ahmedabad 380022.

Shri Ambika Mills Ltd. No. 3 (formerly Shri Jagdish Mills Ltd.), Padra Rd., Vadodara.

Shri Ambika Yarn Product, Ind. Estate, Naroda.

Shri Arbuda Mills Ltd. (formerly Lalbhai Tricumlal Mills Ltd.), Rakhial Rd., Ahmedabad 380021.

Shri Bansidhar Spinning & Weaving Mills Ltd. (Deepak Textile Ind. Pvt. Ltd.—formerly Kalyan Mills), Naroda Rd., Ahmedabad 380002.

Shri Bhajras Spinning & Weaving Mills Ltd., Jamkhambahia, Saurashtra.

Shri Prithvi Cotton Mills Ltd. (formerly Broach Fine Counts Spinning & Weaving Co. Ltd.), M. Gandhi Rd., Bharuch.

Shri Shubhlaxmi Mills Ltd. (formerly Shree Vijaya Laxmi Cotton Mills), Station Rd., Cambay, Kaira Dist.

Shri Vivekanand Mills Ltd., Rakhial Rd., Ahmedabad 380021.

Shri Yamuna Mills Co. Ltd. (formerly New Baroda Mills Co. Ltd.), Pratapnagar, Vadodara 390004.

Sidhpur Mills Co. Ltd., Bindu Sarovar Rd., Sidhpur.

Silver Cotton Mills Co. Ltd., Near Jaganath Mahadev, Amraiwadi Rd., Ahmedabad.

Soma Textiles (formerly New Commercial Mills Co. Ltd. No. 2 — also known as New National Mills), Rakhial Rd., Ahmedabad 380021.

Surat Cotton Spinning & Weaving Mills Pvt. Ltd., Nawabwadi, Surat.

Surat District Co-op. Spinning Mills, Varachha Rd., Surat 395003.

Surat Textile Mills Ltd., Varachha Rd., Surat 395003.

Tarun Commercial Mills Ltd. (formerly Gujarat Spinning & Weaving Co. Ltd.), Outside Kalupur Gate, Railwaypura, Ahmedabad 380002.

Vijaya Mills Co. Ltd., Naroda Rd., Ahmedabad 380002.

Vikram Mills Ltd., Outside Saraspur Gate, Rajpur, Ahmedabad 380021.

Haryana

Bhiwani Textile Mills (formerly Punjab Cloth Mills Ltd.), Birla Colony, Bhiwani.

Elson Cotton Mills Pvt. Ltd., 23rd Milestone, Mathura Rd., Ballabgarh 121004.

Gopichand Textile Mills Ltd., Hissar Rd., Sirsa, Hissar 125001.

Hissar Textile Mills, Hissar 125001.

Rohtak Textile Mill Ltd. (Mohan Spinning Mill), Circular Rd., Rohtak 124001.

Technological Institute of Textiles (formerly Bhiwani Cloth Mills Ltd.), Bhiwani.

Usha Spinning & Weaving Mills Ltd., 12/1, Milestone, Mathura Rd., Faridabad 121001.

Jammu & Kashmir

Chenab Textile Mills, Jammu Main Rd., Kathua.

Kerala

Alagappa Textiles (Cochin) Ltd., Alagappanagar, Trichur.

Asok Textiles (Pvt.) Ltd., Asokapuram, Alwaye 683101.

Calicut Modern Spinning & Weaving Mills Ltd., Somasundarapuram, Chelambra, Kozhikode.

Cannanore Co-op. Spinning Mills Ltd., Chovva, Cannanore 670006.

Cannanore Spinning & Weaving Mills Ltd., Kakkat, Cannanore.

Chakolas Spinning & Weaving Mills Ltd., Alwaye 683104, Ernakulam Dist.

G. T. N. Textiles, Alwaye, Ernakulam Dist.

J. & P. Coats (Ind.) Pvt. Ltd., Koratti, Trichur Dist.

Kanthimathy Mills, Ind. Estate, Trivandrum 695019.

Kathayee Cotton Mills Ltd., Perumbavoor Rd., Alwaye.

Kerala Laxmi Mills Ltd., Pullazhi, Trichur.

Madras Spinners Ltd., Attappallam, Chullimada, Palghat 678007.

Malabar Spinning & Weaving Co. Ltd., Kallai, Calicut 673003.

Parvathi Mills Ltd. (formerly A.D. Cotton Mills (Pvt.) Ltd.), Quilon 691001.

Premier Cotton Spinning Mills Ltd., Kanjikode West, Palghat 678007.

Sri Bhagvathi Textiles Ltd., Chittur, Palghat Dist.

Sri Bhagavathi Textiles Ltd., Vannamadai Post, Chittoor, Palghat Dist.

Trivandrum Spinning Mills Ltd., Balarampuram, Trivandrum.

Vanaja Textiles Ltd., Kurichikara, Trichur.

Vijayamohini Mills Ltd., Thirumala, Trivandrum 695006.

Western India Cotton Mills Ltd. (formerly Aaron-Spinning & Weaving Mills Ltd.), Pappinisseri, Cannanore Dist.

Madhya Pradesh

Bengal Nagpur Cotton Mills Ltd., Rajnandgaon, Durg Dist.

Bharat Commerce & Ind. Ltd., Birlagram, Nagda 456335.

Bilaspur Spinning Mills & Ind. Ltd., Bilaspur 495001.

Binod Mills Co. Ltd., Ujjain 456001.

Binod Mills Co. Ltd. (formerly Sipra Cotton Mill), Ujjain 456001.

Burhampur Tapti Mill Ltd., Lalbag, Burhampur.

Hira Mills Ltd., 1/10, Hira Mill Marg.

Hukamchand Mills Ltd., Shilnath Camp, Indore.

Indore-Malwa United Mills Ltd., New Dewas Rd., Indore.

Jiyajirao Cotton Mills Ltd., Birlanagar, Gwalior.

Kalyanmal Mills Ltd., 15, Silnath Camp, Indore.

M. P. State Ind. Co-op. Ltd., Khandwa, Indore Rd., Sanawad 450001.

Mandsaur Textile Mills, Mandsaur 458001.

Motilal Agarwal Mills Pvt. Ltd., Ind. Area, Birlanagar, Gwalior.

Nandlal Bhandari Mills Ltd., Snehlataganj Main Rd., Indore.

New Bhopal Textiles Ltd. (formerly Bhopal Textiles), Chandbarh, Bhopal.

Nimas Textiles Ltd., Indore Rd., Khandwa.

Rai Bahadur Kanhaiyalal Bhandari Mills, Malgodown Rd., Indore.

Rajkumar Mills Ltd., 7, New Dewas Rd., Indore.

Shree Sajjan Mills Ltd. (formerly Ratlam Bombay United Spinning & Weaving Co. Ltd.), Ratlam 457001.

Standard Mills Co. Ltd. (formerly Shri Mhalsabhai Cotton Mills), Balgarh, Dewas 455001.

Swadeshi Cotton & Flour Mills Ltd., 7, Shilnath Camp, Indore.

Maharashtra

Ahmedabad Jupiter Spinning/Weaving & Manufg. Co., Ltd. (Jupiter Mills No. 2 — formerly Hind Mills No. 1 & No. 2), Carroll Rd., Parel, Bombay 400012.

Amravati Growers Co-op. Spinning Mills Ltd., Badnera Rd., New Ind. Estate, Amraoti.

Apollo Mills Ltd., N. M. Joshi Marg, Chinchpokli, Bombay 400011.

Aurangabad Mills Ltd., Kotwalpura, Aurangabad.

Bombay Dyeing & Manufg. Co. Ltd. (Spring Mills), G.D. Ambekar Marg, Dadar, Bombay 400014.

Bombay Dyeing & Manufg. Co. Ltd. (Textile Mills), Elphinstone Rd., Bombay 400013.

Bradbury Mills Ltd., M. Azad Rd., Jacob Circle, Bombay 400011.

Central India Spinning, Weaving & Manufg. Co. Ltd., (Empress Mills), Nagpur.

Century Spinning & Manufg. Co. Ltd. (Century Mills), Globe Mill Passage, N. M. Joshi Marg, Bombay 400013.

Chhaganlal Textile Mills (Pvt) Ltd. (formerly Chalisgaon Shri Laxmi Narayan Mills Co. Ltd.), Chalisgaon, East Khandesh.

Coorla Spinning & Weaving Co. Ltd., Old Agra Rd., Kurla, Bombay 400070.

BOMBAY DYEING
& MFG. CO. LTD.
'Neville House', Graham Road,
Ballard Estate, Bombay 1.
Phone : 268071 • *Telex No.* 011-2572
Grams : " DYEING " and " TEXTILES "

Spring Mills, Naigaum Road, Dadar,
Bombay 14.
Phones : 442271-2-3-4-5.

Textile Mills, Elphinstone Road, Parel,
Bombay 13.
Phones : 458351-52-53.

Manufacturers & Exporters of :

Grey, bleached, dyed, mercerised, sanforized, tebilised, hecowa, finished, screen and roller printed, raised-sheeting printed and fancy woven furnishing, mattress ticking, terry towel-plain and fancy, damask table-cloth, napkin, blanket-woven and non-woven, drill, gaberdine, tussore, poplin, printed dress fabric, manmade fibre-blend suiting, shirting, flannelette, shirting, sheeting, "Interlining Fabrics" and "Fusible Interlinings", and printed sarees, cloth width 41 to 229 cms.

Trade Marks :

" Kanta Chaap ", " Fan ", " Towers of Strength ", " Springtex ", " Texspring ", " Beaucale ", " Beaulyn ", " Wadrene " and " Wadtex ".

Crown Spinning & Manufg. Co. Ltd., (formerly Dhun Mills), Gokhale Rd. (South), Bombay 400025.

Dawn Mills Co. Ltd., Fergusson Rd., Lower Parel, Bombay 400013.

Deccan Co-op. Spinning Mills Ltd., Station Rd., Jawahar Nagar, Shiroli, Kolhapur Dist.

Digvijay Spinning & Weaving Co. Ltd., (formerly Dinshaw Petit Mills), Lalbaugh, Bombay 400033.

Edward Textiles U.R.S. (formerly Edward Sassoon Mills Ltd.), Fergusson Rd., Lower Parel, Bombay 400013.

Elphinstone Spinning & Weaving Co. Ltd., (Units 1 and 2 — formerly Moon Mills) Elphinstone Rd., Bombay 400013.

Finlay Mills Ltd., 10/11, Dr. S. S. Rao Rd., Bombay 400012.

Gold Mohur Mills Ltd., Dadasaheb Phalke Rd., Dadar, Bombay 400014.

Hindoostan Spinning & Weaving Mills Co. Ltd., Jacob Circle, Bombay 400011.

India United Mills Ltd. No. 1 (formerly Jacob Mills), Dr. Ambedkar Rd., Parel, Bombay 400012.

India United Mills Ltd. No. 2, (formerly Alexandra Mill), R. Bhogle Marg, Chinchpokli, Bombay 400033.

India United Mills Ltd. No. 3 (formerly E.D. Mill), R. Bhogle Marg, Chinchpokly, Bombay 400033.

India United Mills Ltd. No. 4 (formerly Rachol Mills), Chinchpokli, Bombay 400033.

India United Mills Ltd. No. 5 (formerly Manchester Mill), Chinchpokli Cross Lane, Bombay 400027.

Jam Manufg. Co. Ltd., Lalbaug, Bombay 400012.

Jam Shri Ranjitsinghji Spinning and Weaving Mills Co. Ltd., Station Rd., Sholapur.

Jawahar Co-op. Spinning Mills Ltd., Nanded Rd., Latur, Osmanabad Dist.

Jawahar Sahakari Kapus Utpadak Soot Girni Maryadit, Latur, Osmanabad.

Jayashankar Mills (Barsi) Ltd., 2553, Bhoyare Rd., Barsi Town.

Kamla Mills Ltd. (formerly Ebrahimbhoy Pabaney Mills), Tulsipipe Rd., Bombay 400013.

Khatau Makanji Spinning and Weaving Co. Ltd., B. Jagtap Marg, Byculla, Bombay 400011.

Kiran Spinning Mills, Kolshet Rd., Thana.

Kohinoor Mills Co. Ltd., (Nos. 1 & 2), Naigaum Cross Rd., Dadar, Bombay 400014.

Kohinoor Mills Co. Ltd. (No. 3), Shivaji Park, Dadar, Bombay 400028.

Kolhapur Sahakari Zilla Setkari Vinkar Soot Girni Ltd., Yadrav Shirol, Kolhapur.

Laxmi-Vishnu Textile Mills Ltd., Sholapur.

Lokamanya Mills (Barsi) Ltd., Arangaon Rd., Barsi Town, Sholapur.

Madhavnagar Cotton Mills Ltd., Madhavnagar, Sangli.

Mafatlal Fine Spinning & Manufg. Co. Ltd., Unit No. 2, (formerly Sassoon Spinning & Weaving Mills Co. Ltd.), Mount Estate, Mazagaon, Bombay 400010.

Mafatlal Fine Spinning and Manufg. Co. Ltd. No. 3 (formerly New Union Mill), Delisle Rd., Lower Parel, Bombay 400013.

Marathe Textiles Mills, Near Railway Station, Miraj.

Marathwada Co-op. Spinning Mills Ltd., Wajegaon Taluka, Nanded.

Marathwada Textiles Ltd., Hingol.

Model Mills (Nagpur) Ltd., Umrer Rd., Nagpur.

Modern Mills Ltd. (Mill No. 1) (formerly Mysore Spg. & Mfg. Co. Ltd. (Mill No. 2), 98, Elphinstone Rd., Parel, Bombay 400025.

Modern Mills Ltd., (Mill No. 2) (formerly Bomanji Petit Mills), 101, K. Khadya Marg, Bombay 400011.

Morarjee Gokuldas Spinning & Weaving Co. Ltd., Dr. Ambedkar Rd., Parel, Bombay 400012.

Nagpur Vinkar Sahkari Soot Girni Maryadit, Umrer Rd., Nagpur 440003.

Narsinggirjee Mills, Station Rd., Sholapur.

New City of Bombay Manufg. Co. Ltd., 63, T. B. Kadam Marg, Bombay 400033.

New Great Eastern Spinning & Weaving Co. Ltd., Dr. Ambedkar Rd., Bombay 400027.

New Kaiser-I-Hind Spinning & Weaving Co. Ltd., Gurupdeo Rd., Bombay 400033.

New Pratap Spg. Wvg. & Manufg. Co. U.R.S., Near Rly. Stn., Dhulia, West Khandesh 424001.

Osmanshahi Mills Ltd., Nanded 431601. (Bombay Office: Bank St., Bombay 400001).

Phoenix Mills Ltd. (formerly Britannia Mills), Senapati Bapat Marg, Lower Parel, Bombay 400013.

Piramal Spinning & Weaving Mills Ltd., Planet Mill Rd., Fergusson Rd., Bombay 400013.

Podar Mills Ltd. (formerly Toyo Podar Cotton Mills Ltd.), N. M. Joshi Marg, Bombay 400011.

Prakash Cotton Mills Pvt. Ltd. (formerly Seksaria Cotton Mill No. 2), Fergusson Rd., Lower Parel, Bombay 400013.

Pratap Spinning, Weaving & Manufg. Co. Ltd. (U.R.L.), Amalner, East Khandesh, 43, Tamarind Lane, Fort, Bombay 400001.

Pulgaon Cotton Mills Ltd. (formerly Pulgaon Cotton Spinning, Weaving & Manufg. Co. Ltd.), Pulgaon, Amraoti.

R. B. Bansilal Amirchand Spinning & Weaving Mills (U.R.S.), Main Rd., Hinganghat, Wardha.

R. S. Rechchand Gopaldas Mohota Spinning & Weaving Mills Pvt. Ltd. (U.A.C.), Akola 444001.

R. S. Rechchand Mohota Spinning and Weaving Mills Pvt. Ltd., Hinganghat, Wardha 442001.

Raghuvanshi Mills Ltd. (formerly Kilachand Mills, Ltd.), 11/12, Haines Rd., Mahalaxmi, Bombay 400013.

Rahuri Taluka Sahakari Kapus Ginning & Pressing Society Ltd., Rahuri, Ahmednagar.

Raja Bahadur Motilal Poona Mills Ltd. (formerly Poona Cotton and Silk Mfg. Co. Ltd.) 5, Raja Bahadur Motilal Rd., Pune 411001.

Rajen (Textile) Mills Pvt. Ltd. (formerly Barsi Spinning & Weaving Mills Ltd.) Barsi Town, Sholapur.

Rajesh Textile Mills Ltd. (formerly Sayaji Mill No. 2) Fergusson Rd., Lower Parel, Bombay 400013.

Ruby Mills Ltd. (formerly Sorab Mills), Lady Jamshedji Rd., Dadar, Bombay 400028.

Sayaji Mills No. 2 (formerly New Prahlad Mills) Fergusson Rd., Lower Parel, Bombay 400013.

Seksaria Cotton Mills Ltd. (formerly Currimbhoy Mohamedbhoy Mills), De Lisle Rd., Bombay 400013.

Sholapur Sahakari Soot Girani Niyamit, Akkalkot Rd., Sholapur.

Shree Balaji Spinning & Weaving Mills, Shivajinagar, Sangli.

Shree Madhusudan Mills Ltd. (formerly Madhusudan Mills Ltd.), Globe Mill Passage, N. M. Joshi Marg, Bombay 400013.

Shree Mukesh Textile Mills Pvt. Ltd. (formerly Colaba Textile Mills Pvt. Ltd.), Victoria Bunder Rd., Colaba, Bombay 400005.

Shree Niwas Cotton Mills Ltd. (formerly Fazulbhoy Mills Ltd.), 402, S. Bapat Marg, Bombay 400013.

Shree Ram Mills Ltd. (formerly Crescent Mills Ltd.), Fergusson Rd., Bombay 400013.

Shri Shahu Chhatrapati Mills, Shahupuri, Kolhapur 416002.

Shree Sitaram Mills Ltd. (formerly Sir Shapurji Broach Mills), N. M. Joshi Marg, Bombay 400013.

Simplex Mills Co. Ltd., 30, Clerk Rd., Jacob Circle, Bombay 400011.

Standard Mills Co. Ltd. (Standard Mill), New Prabhadevi Rd., Lower Parel, Bombay 400015.

Standard Mills Co. Ltd. (New China Mill), New Prabhadevi Rd., Lower Parel, Bombay 400015.

Svadeshi Mills Co. Ltd., Old Agra Rd., Kurla, Bombay 400070.

Swan Mills Ltd., Tokarsi Jivraj Rd., Sewri, Bombay 400016.

Tata Mills Ltd., Dr. Ambedkar Rd., Dadar, Bombay 400014.

Vallabh Textile Mills Ltd., 6, Kalwa Ind. Area, Thana.

Vasant Sahakari Soot Wa Kapad Girni Ltd., Pandharkoda, Yeotmal.

Victoria Mills Ltd. (Old Satya Mill), Globe Mill Passage, Off N. M. Joshi Marg, Bombay.

Vidarbha Mills Berar (U.R.S.), Amraoti, Achalpur.

Vishwa Bharati Spinning & Weaving Co-op. Society Ltd., Kawad Village, Angan, Thana.

Western India Spinning and Manufg. Co. Ltd., Dattaram Lad Marg, Parel Tank, Bombay 400033.

Yeotmal Zilla Sahakari Soot Wa Kapad Girni Ltd., Pandharkoda & Pusad, Yeotmal Dist.

Yeshwant Sahakari Soot Girni Niyamit (Shri Shivaji Textile Workers Co-op. Spinning Mill Ltd.), Bhor, Poona Dist.

Mysore State

Bagalkot Co-op. Spinning Mills Ltd., Bagalkot 587101.

Bellary Spinning & Weaving Co. Ltd., Vinayaknagar, Hospet Trunk Rd., Bellary 583101.

Bhadra Spinning Mills (Pvt.) Ltd., Magadi Rd., Dasarhalli, Bangalore 560010.

Bijapur Co-op. Spinning Mills Ltd., Near Bijapur Railway Station, Bijapur 586101.

Binny Ltd. (formerly Bangalore Woollen, Cotton & Silk Mills Co. Ltd.), No. 1 Agraharam Rd., Bangalore 560023.

Davangere Cotton Mills Ltd., Poona-Bangalore Rd., Davangere 577001, Shimoga.

Davangere Cotton Mills Ltd., Gadag-Betageri Rd., Dodballapur Taluka, Bangalore Dist.

Gokak Mills Ltd., Gokak Falls, Belgaum 590001.

Mahaboob Shahi Kulbarga Mills Co. Ltd., Gulbarga 585101.

Minerva Mills Ltd., Magadi Rd., Bangalore 560023.

Nandi Hasbi Textile Mills (Pvt.) Ltd., Samapurgram, Dharwar 580001.

Ramkumar Mills Pvt. Ltd., No. 1, Subramiayapura, Bangalore 560011.

Ramkumar Mills Pvt. Ltd., No. 2, Rajajinagar, Bangalore 560010.

Shree Chandrodaya Mills Pvt. Ltd., Poona-Bangalore Rd., Devangere 577001.

Shree Ganesar Textile Mills Ltd., Poona-Bangalore Rd., Devangere 577001, Shimoga.

Shree Kathiresan Spinning Mills, Garehatti, Chitradurga 577501.

Sri Anjaneya Cotton Mills (Pvt.) Ltd., Averagere Village, Bada Rd, Devangere 577001, Shimoga.

Sri Krishna Rajendra Mills Ltd., Bangalore Rd., Mysore 570003.

Sri Shankara Textile Mills Ltd., Bangalore-Poona Rd., Devangere 577001, Shimoga.

Sri Siddeswara Textile Mills (Pvt.) Ltd., Devangere 577001, Shimoga.

Sujata Textile Mills, Nanjangud Town 571301.

Orissa

Bhaskar Textile Mills Ltd., Jharsuguda, Sambalpur.

Kalinga Textiles (Pvt.) Ltd., Rajgangpur.

Orissa Textile Mills Ltd., 3 & 4, Choudwar, Cuttack.

Pondicherry

Anglo-French Textiles Ltd. (Rodier Mill), Cuddalore Rd., Pondicherry.

Cannore Spinning & Weaving Mills Ltd., Kakat Cannore.

Soundaraja Mills Pvt. Ltd., Nedungadu, Near Kariakal.

Sri Bharathi Mills Ltd. (formerly Establishment Textile De Modeliarpeth, S.A.) Mudaliarpeth, Pondicherry 605004.

Swadeshi Cotton Mills Co. Ltd. (formerly Savana), Mudaliarpeth, Pondicherry 605004.

Punjab

Bharat Commerce & Ind. Ltd., Ind. Area, Rajpura.

Dayalbagh Spinning & Weaving Mills (formerly Benkateswar Cotton Mill Ltd.), Putlighar, Amritsar.

Jagatjit Cotton Textile Mills Ltd., G.T. Rd., Phagwara.
Kharar Textile Mills, Kharar, Chandigarh.
Punjab-Hosiery & Textile Mills Ltd., Ludhiana.
Shree Bhawani Cotton Mills Ltd., Ganganagar Rd., Abohar 152116, Firozpur Dist.
Vardhman Spinning & General Mills Ltd., Chandigarh Rd., Ludhiana 141003.

Rajasthan

Aditya Mills Ltd., Madanganj, Kishangarh.
Anjana Vijaya Spinning Mills, Ind. Estate, Bhilwara 311001.
Jaipur Spinning & Weaving Mills Ltd., Podar Puri Power House Rd., Jaipur 302006.
Kamala Spinning Factory, Ind. Estate, Bhilwara 311001.
Krishna Mills Ltd., Beawar 305901.
Mahalakshmi Mills Co. Ltd., Beawar 305901.
Maharaja Shree Umaid Mills Ltd., Jodhpur Rd., Marwar.
Maharaja Kishangarh Samyog Mills Co. Ltd., Madanganj, Kishangarh.
Mewar Textile Mills Ltd., Bhilwara 311001.
Podar Spinning Mills, Podarpuri, Power house Rd., Jaipur 302006.
Rajasthan Spinning & Weaving Mills Ltd., Bhilwara 311001.
Rajasthan Textile Mills, Bhawanimandi.
Shree Gopal Ind. Ltd. (formerly Kotah Textiles Ltd.), Rangpur Rd., Kota 324002.
Shree Sadul Textiles Ltd., Sriganganagar 335001.

Tamil Nadu

Alagappa Cotton Mills, Nagammai, Rajapalayam, Ramnad.
Anand Kumar Mills Ltd., Siravanampatti, Coimbatore.
Asher Textiles Ltd., 1/4, Avanashi Rd., Tirupur 638603.
Bhavani Mills Ltd., Sundarapuram, Padanur, Coimbatore.
Bhojaraj Textiles Mills Ltd., Theni, Madurai 625004.
Binny Ltd., Perambur Barracks, Madras 600012.
Cambodia Mills Ltd., Kamachipuram, Ondiputhur, *via* Coimbatore.
Cauvery Spinning & Weaving Mills Ltd., Cauvery Nagar, Tiruchirapally.
Central Jail Spinning & Weaving Factory, Central Jail, Coimbatore.
Chandra Textiles Pvt. Ltd., Peelamedu, Coimbatore 641004.
Coimbatore Cotton Mills Ltd. & Coimbatore Cotton Jubilee Mills, Uppilipalayam, Coimbatore 641015.
Coimbatore Dist. Co-op. Spinning Mills Ltd., Kolathupalayam, Coimbatore.
Coimbatore Murugan Mills Ltd., Mettupalayam Rd., Coimbatore.
Coimbatore Pioneer Mills Ltd. (A), Peelamedu, Coimbatore.
Coimbatore Pioneer Mills Ltd. (B), Perianaickenpalayam, Coimbatore.
Dhanalakshmi Mills Ltd., 56, B.S. Sundaram Rd., Tirupur.
Ganga Textiles, 2/387, Avanashi Rd., Coimbatore 641018.
Gnanambikai Mills Ltd., Coimbatore 641001.
Gobald Textiles Pvt. Ltd., Ammapalayam, Tirupur 638603.
Gomathy Mills A & B (formerly Karthikeyan Mills Ltd.), Viravanallur, Tirunelveli.
Jawahar Mills Ltd., Shavapet, Surmangalam Rd., Salem.
Jawahar Mills Ltd., (Chettinad Branch), Ramanathapuram Dist.
Jayaram Mills Ltd., Samsikapuram Rd., Rajapalayam.
Jothi Mills, Jothipuram, Coimbatore 641019.
Kadri Mills (C.B.E.) Ltd., Odderpalayam, Ondiputhur.
Kanyakumari District Co-op. Spinning Mills Ltd., P.O. Aramboly.
Kancheepuram Kamakshiamman Co-op. Spinning Mills Ltd., Vaiyavoor, Kancheepuram 631501.
Kandasamy Spinning Mills, Suriyampalayam, Bhavani 638301, *via* Erode.
Karur Mills Ltd., Dindugel Rd., Thanthonimalai, Karur 639001.
Kayner Textiles Ltd., Konarpalayam, *via* Erode.
Kishnaveni Textiles Ltd., Trichy Rd., Uppilipalayam, Singanallur.
Kothari Textiles Ltd. Singanallur, Coimbatore.
Kothari Textiles Ltd. K. Vadamadurai Coimbatore 641017.
Kumaran Mills Ltd., Narasimhanaickenpalayam, Coimbatore 641017.
Kwality Spinning Mills (Pvt.) Ltd., Udamelpet Rd., Pollachi.
Lakshmi Mills Co. Ltd. (Mill Nos. 1 & 2), Pappanaickenpalayam, Kovilpatti 627701.
Lakshmi Mills Co. Ltd. (Mill Nos. 3 & 4), Palladam.
Lotus Mills Ltd., Sundarapuram, Podanur, Coimbatore 641024.
Loyal Textile Mills Ltd. (formerly Loyal Mills Ltd.), Kovilpatti 621701.
Madura Mills Co. Ltd. (Old IPM and New Mills), Madura 625001.
Madura Mills Co. Ltd. (formerly Coral Mills Co. Ltd.), Tuticorin 628001.
Madura Mills Co. Ltd. (formerly Tinnevelly Mills Co. Ltd.), Ambasamudram 627401.
Madura Mills Co. Ltd. (Pandyan Mills), Madurai East, Serampore.
Madurai Dist. Co-op. Spinning Mills Ltd., Koruthapullampatti, Melur.
Mettur Beardsell Ltd. (formerly Mettur Ind. Ltd.), Mettur Dam Rd., South Salem.
Mettur Spinning Mills, Mettur Dam, Salem.
Nagammal Mills Ltd., Kaliancaud, Nagercoil 629003.
North Arcot Dist. Co-op. Spinning Mills Ltd., Ariyur Vellur 632002.
Palani Andavar Mills Ltd., Dhally Rd., Udamelpet, Coimbatore Dist.
Premier Mills (CBE) Ltd., Pulankinar, Udamelpet, Coimbatore Dist.
Pulliccar Mills Ltd., Tiruchengodu, Salem Dist.
Radha Krishna Mills Ltd., Peelamedu, Coimbatore 641004.
Rajalakshmi Mills Ltd., Uppilipalayam, Singanallur, Coimbatore 641005.
Rajapalayam Mills Ltd. Samsikapuram Rd., Rajapalayam.
Rajaratna Mills (Pvt.) Ltd., Neikarapatty, Palani.
Rajeswari Mills Ltd., Railway Station Rd., Gudiyattam.
Ramalinga Mills (Pvt.) Ltd., 53, Great Cotton Road, Arupukotai, Ramnad Dist.
Raveendra Mills Ltd., Singanallur, Aerodrome Rd., Coimbatore 641005.
Rukmini Mills Ltd., Silaiman Post, Madurai Dist.
Salem Co-op. Spinning Mills Ltd., Ammapet, Salem 64.
Salem Textiles Ltd., Selliampalayam, Narasingapuram, Salem Dist.
Saroja Mills Ltd., Singanallur, Coimbatore 641005.

Sholingur Textiles Ltd., Pandianallur Village, Sholingur.

Sitalakshmi Mills Ltd., Madurai 25006.

Sivananda Mills Ltd., Sravanampatti, Coimbatore 641006.

Somasundaram Mills (Pvt.) Ltd., (formerly Coimbatore Mills) 10/64, Somasundaram Mill Rd., Coimbatore.

Somasundaram Mills (Pvt.) Ltd., Somanathapuram, Near Manamadurai, Ramnad Dist.

Soundaraja Mills Pvt. Ltd., Soundaraja Mills Rd., Dindigul.

South Arcot Dist. Co-op. Spinning Mills Ltd., P.O. Saram, Tindivanam 604001, South Arcot Dist.

Southern Textiles Ltd., Sulur, Coimbatore.

South India Co-op Spinning Mills Ltd., P.O. Pettai, Tinneveli Dist.

Sree Ayyanar Spinning & Weaving Mills Ltd., Mallonginar, Ramnad Dist.

Sree Meenakshi Mills Ltd., Thirupparankundram Rd., Madurai.

Sree Meenakshi Mills Ltd., Paravai, Madurai Dist.

Sree Nithyakalyani Textiles Ltd., Tiruvadana Senbanur, *via* Kallai, Ramnad Dist.

Sree Rajendra Mills Ltd. (formerly Salem Rajendra Mills Ltd.), Gandhi Nagar, Salem 636009.

Sree Sabari Mills Pvt. Ltd., P.O., K. Sathanur E. Puthur, Tiruchirapalli 620001.

Sree Saraswathi Mills Ltd., Karthikeyapuram, Tiruttani, Chingleput.

Sree Sivakami Mills Ltd., Thenur, Madurai Dist.

Sree Visalakshi Mills Ltd., Vilangudi, Madurai Dist.

Sri Bharathi Cotton Mills, Rajapalayam.

Sri Balasubramania Mills Ltd., Uppilipalayam, Coimbatore 641015.

Sri Ganapathy Mills Co. Ltd., Chatrampudukkalam, Shankarnagar.

Sri Kannapiran Mills Ltd., Souripalayam, Coimbatore 641004.

Sri Karunambikai Mills Ltd., Somanur Post, Coimbatore.

Sri Kothandaram Spinning Mills, 29, Venkatapathi Iyengar St., Madurai.

Sri Lakshmi Saraswathi Textiles (Arni) Pvt. Ltd., Ramanathapuram 623501.

Sri Natesar Spinning and Weaving Mills (Pvt.) Ltd., 147/148, Perundurai Rd., P.B. 6, Erode 638001.

Sri Ramakrishna Mills Ltd., Sathimangalam, Coimbatore 641006.

Sri Ramalinga Choodambikai Mills Ltd., 59A/15, B. S. Sundaram Rd., Tirupur.

Sri Ramnarayan Mills Ltd., Perianaickenpalayam, Coimbatore 641018.

Sri Ranga Vilas Ginning, Spinning & Weaving Mills Peelamedu, Coimbatore 641004.

Sri Rani Lakshmi Ginning, Spinning & Weaving Mills (Pvt.) Ltd., Arasur, Palladam.

Sri Sakthi Textiles (Pvt.) Ltd., Pollachi 642001, Coimbatore Dist.

Sri Venkatesha Mills Ltd., Palni Rd., P.O. Venkatesha Mills, Udamelpet.

Sri Venkatesha Mills Ltd., Kathirvedu, Madras 600066.

Srivilliputtur Co-op. Spinning Mills Ltd., Srivilliputtur.

Sudarsanam Spinning Mills, Samsikapuram Rd., Rajapalayam.

Sundaram Textiles Ltd., Nambinagar, P.O. Nanguneri, Tirunelveli Dist.

Surya Prabha Mills Pvt. Ltd., Kunimuthur, Coimbatore 641008.

Swamiji Mills Ltd., Meenakshipuram, Shivakashi 626123.

Thaikesar Alai (*Prop.:* Sree Meenakshi Mills Ltd., Madurai), Usilampatti, Manaparai.

Thanjavur Textiles Ltd., Thanjavur 613005.

Thanjavur Dist. Co-op. Spinning Mills Ltd., Manalmedu, Mayuram Taluk, Thanjavur.

Thiagarajar Mills, Kappalur, Thirumangalam, Madurai Dist.

Thirumagal Mills Ltd., Katpadi Rd., Gudiattam, North Arcot.

Tiruchirapalli Dist. Co-op. Spinning Mills Ltd., Malaikovilur, Karur 639001, Trichy.

Tiruchendur Co-op. Spinning Mills Ltd., Nazareth, Tirunelveli.

Tirupur Cotton Spinning & Weaving Mills Ltd., Perumanallur Rd., Tirupur 638602.

Trichinopilly Mills Ltd., Ramjeenagar, Tiruchirapalli 620009.

Tuticorin Spinning Mills Ltd., 106, Palayamcottai, Tuticorin.

Varadhlakshmi Mills Ltd., Rajagambeeram, Hill Crest, Madurai.

Vasanta Mills Ltd., Trichy Rd., Singanallur, Coimbatore 642005.

Vijayakumar Mills Ltd., Chinnakalyamputhur Village, Madurai Dist.

Vijayalakshmi Mills Ltd., (formerly Vijaya Mills Ltd.), Kuniyamuthur, Coimbatore 641008.

Uttar Pradesh

Ajanta Textiles Ltd., Loni Rd., Ind. Area, Gaziabad, 201001 Meerut.

Amitabh Textile Mills Ltd., Prem Nagar, Dehra Dun 248001.

Ankey Cloth & General Mills (former Ramchand Textiles), Hathras City 204101.

Atherton West & Co. Ltd., Anwarganj, Kanpur 208001.

Bankey Cotton & Spinning Mills, Hathras City 204101.

Bijili Cotton Mills Ltd. (formerly Tulsidas Tejpal Mills Ltd.), Mendu Rd., Hathras City 204101.

Cawnpore Textiles Ltd., Cooperganj, Kanpur 208001.

Elgin Mills Co. Ltd. Mills 1 & 2, Civil Lines, Kanpur 208001.

J. K. Manufacturers Ltd., Lala Kamlapat Rd., Kanpur 208001.

John's Mills Co. (formerly John's Prince of Wales Spinning Mills No. 4), Jeoni-Ki-Mandi, Agra 282001.

John's Mills Co. (formerly John's Spinning Mills No. 2), Jeoni-Ki-Mandi, Agra 282001.

John's Coronation Spinning Mills No. 3, Jeoni-Ki-Mandi, Agra 282001.

Juggilal Kamlapat Cotton Spinning & Weaving Mill Co. Ltd., Lala Kamlapat Rd., Kanpur 208001.

Lakshmi Ratan Cotton Mills Co. Ltd., Kalpi Rd., Kanpur 208001.

Lord Krishna Textile Mills, Nakur Rd., Sahranpur 247001.

Madan Ind. Ltd., Hastinapur, Meerut 250001.

Modi Spinning & Weaving Mills Co. Ltd., Modinagar, Meerut 250001.

Moradabad Spinning & Weaving Co. Ltd., Kundanpur, Moradabad 244001.

Muir Mills Co. Ltd., Civil Lines, Kanpur 208001.

N. K. Cotton Mills, Hathras City 204101.

New Victoria Mills Co. Ltd., 14/1, Civil Lines, Kanpur 208001.

Prem Spinning & Weaving Co. Ltd., Station Rd., Ujhani, Badaun.

Raza Textiles Ltd., Rampur 244901.

Swadeshi Cotton Mills Co. Ltd., Hamirpur Rd., Juhi, Kanpur 208001.

Swadeshi Cotton Mills Co. Ltd., Naini, Allahabad.

Swadeshi Cotton Mills Co. Ltd., Maunat Bhananji.

U.P. Co-op. Spinning Mills Ltd., Manipur Rd., Etawah 206001.

West Bengal

Adarsha Cotton Spinning & Weaving Mills Ltd., Suryanagar, Asansol, P.O. Burnpur, Calcutta.

Anantapur Textiles Ltd., Vill-Jhumjhumi, Anantapur, Howrah.

Bangeswari Cotton Mills Ltd., Rishra, Serampore, Hooghly 712201.

Bangodaya Cotton Mills Ltd., Panihati, 24 Parganas.

Basanti Cotton Mills Ltd., Panihati, 24 Parganas.

Bengal Luxmi Cotton Mills Ltd., Serampore, Hooghly 712201.

Bengal Textile Mills Ltd., Cossimbazar, Murshidabad.

Bhagyalaxmi Cotton Mills Ltd., Belgharia, 24 Parganas.

Bowreah Cotton Mills Co. Ltd., Bauriam, Howrah.

Cotton Spinning & Rope Co., 51, J. N. Mukherjee Rd., Salku, Howrah.

D. N. Chawdhari Cotton Mills, Dakshineswar, Ariada, 24 Parganas.

Dunbar Mills Ltd., Shamnagar, Garulia, 24 Parganas.

Eastern Spinning Mills Ltd., Pirgachha, 24 Parganas.

Emerald Cotton Mills Ltd., Shamnagar, 24 Parganas.

General Ind. Society Ltd. G.T. Rd., Champadany, Baidyabati, Hooghly 712103.

Hada Textile Industries Ltd., Diamond Harbour Rd., 24 Parganas.

India Jute Co. Ltd. Serampore, Hooghly 712201.

India Linoleums Ltd. (Victoria Cotton Mills Ltd.), 14, Dr. H. K. Chatterjee St., Howrah.

Jaya Shree Textiles & Ind. Ltd., Tantigaria, Midnapore 721101.

Jaya Shree Textiles & Ind. Ltd., Flax Mill Rishra, Hooghly 712103.

Kalyani Spinning Mills Ltd. Kalyani 741235, Nadia.

Kesoram Ind. & Cotton Mills Ltd. (formerly Allied Cotton & Dye Works Ltd.), 42, Garden Reach Rd., Calcutta 700024.

Madura Mills Ltd., Serampore, Hooghly 712201.

Mayurakshi Cotton Mills Ltd., Panchra, Birbhum Dist.

Navnit Yarn Spinning Mills (formerly Bankura Mills), Bankura 722101.

Poddar Projects Ltd., 18, Rabindra Sarani, Calcutta 700001.

Rampooria Cotton Mills Ltd. (formerly Shri Narsing Cotton Mill), P.O. Serampore, Hooghly 712201.

Shri Hanuman Cotton Mills Ltd. (formerly New Ring Mill Co. Ltd.), Fuleshwar, Uluberia, Howrah.

Shri Mahalaxmi Cotton Mills Ltd., Palta, 24 Parganas.

Shaktigarh Textiles & Ind., Barasol, Burdwan 713101.

Sri Annapoorna Cotton Mills Ltd., Shamnagar, 24 Parganas.

Sri Durga Cotton Spinning & Weaving Mills Ltd., Konnagar, Hooghly 712103.

TEXTILES SHUTTLES

Gujarat

Metro Wood & Engg. Works Pvt. Ltd., Ashram Rd., Navrangpura, Ahmedabad 380009.

National Shuttle Manufg. Works, 1288, Vakharia Bldg., Kapasia Bazar, Ahmedabad 380001.

Swastik Textile Trading Co. Pvt. Ltd., Motilal Haribhai Market, Railwaypura Post, Ahmedabad 380001.

Maharashtra

Acme Bobbins & Shuttles Pvt. Ltd., 315, S. V. Savarkar Marg, Dadar, Bombay 400028.

Bharat Timber Ind. (Bombay) Pvt. Ltd., 522, Sayani Rd., Bombay 400025.

Bombay Shuttle Manufg. Co., 21, Dalal St., Bombay 400001.

Central India Machinery Manufg. Pvt. Ltd., 80, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Hindusthan Bobbins Ind., 8, Ramesh Nivas, B. Desai Rd., Bombay 400026.

Indian Shuttle Co. Pvt. Ltd., 105, Apollo St., Bombay 400001.

John Roberts & Co. Pvt. Ltd., Sewree, Bombay 400015.

S. S. Wilson & Co., 384, Sakharpeth, Sholapur 413001.

Swastik Textile Trading Co. Pvt. Ltd., 16, Apollo St., Bombay 400001.

Tarsema Textiles Traders, 11, Noble Chambers, Parsee Bazar St., Bombay 400001.

West Bengal

Chakravati & Co., P-10, New Howrah Bridge Approach Rd., Calcutta 700001.

TINPLATE FABRICATORS

Bihar

Hind Engg. Co., Lakhani Bigha, P.O. Khagaul, Patna, 800001.

Delhi

H. P. Industries, 69, Ind. Area, Najafgarh Rd., New Delhi 110015.

Harichand Kashmirilal, Naya Bazar, Delhi 110001.

Mohan Industry, 953, Mali Wada, C/o Devi Prashad & Co., Delhi 110006.

Gujarat

New Digvijaysinhji Tin Factory, Grain Market, Jamnagar 361001.

Madhya Pradesh

Ashoka Containers, 25/36, Ind. Estate (Pologround), Indore 452001.

Maharashtra

Azad Tin Factory, Azad House, 75/76 Reay Rd., Bombay 400010.

Standard Tin Works, Udyog Mandir, Kurla-Andheri Rd., Bombay 400072.

Mysore

India Tin Industries Pvt. Ltd., Old Madras Rd., P.O. Durvaninagar, Bangalore 560001.

Uttar Pradesh

Agra Tin Mfg., Co., Belanganj, 4, Agra 282001.

G. G. Industries Pvt. Ltd., 8/390, Bheron, Belanganj, Agra 282001.

Hindustan Tin Works Pvt. Ltd., Post Box No. 1, G.T. Rd., Ghaziabad 201001.

United Chemical & Metal Works Pvt. Ltd., 7/109, Lal Bangalow, Swaroop Nagar, Kanpur 208001.

West Bengal

Balgopaldas Iron & Steel Co. Pvt. Ltd., 5, Gopal Doctor Rd., Kidderpore, Calcutta 700023.

Bengal Tin Box Manufg. Co. Pvt. Ltd., 1, Jadu Mitra Lane, Calcutta 700004.

Bharat Barrel & Drum Manufg., Co., Pvt. Ltd., 2, Garstin Place, Calcutta 700001.

Bharat Tin & Enamel Co. Pvt. Ltd., 2A, Shakespeare Sarani, Calcutta 700016.

Color Printing & Hollow Wares Ltd., 243, Acharya P. Chandra Rd., Calcutta 700001.

Containers & Closures Ltd., 2, Fairlie Place, Calcutta 700001.

Crown Cork Manufg. Co. (Cal.), 24, Sir Hariram Goenka St., Calcutta 700007.

D. G. Industries Pvt. Ltd., 35, Chittaranjan Ave., Calcutta 700012.

Dhur Galvg. Works (1955) Pvt. Ltd., 92, Ultadanga Main Rd., Calcutta 700004.

Ganga Tin Factory, 5, Raja Rajkissen St., Calcutta 700006.

Hind Enamel Co., 12, Madhuray Bye Lane, Calcutta 700006.

Hind Galvg. & Engg. Co. Pvt. Ltd., 96, Garden Reach Rd., Calcutta 700023.

Hind Tin Industries, 107-A Raja Dinendra St., Calcutta 700006.

Hindusthan Metal Products Syndicate, 243, Acharya P. Chandra Rd., Calcutta 700006.

Industrial Containers Ltd., 21, N. Subash Rd., Calcutta 700001.

Khemchand Rajkumar, 33, N. Subash Rd., Calcutta 700001.

Kohinoor Manufg. Corpn. Pvt. Ltd., 5/1, Rosemary Lane, Howrah 711101.

M. L. Day & Co., 57B, Chittaranjan Ave., Calcutta 700012.

Metal Products & Engg. Co., 124, M. Gandhi Rd., Calcutta 700007.

Metal & Tin Box Co. (I.) Pvt. Ltd., 233, G. L. Tagore Rd., Baranagore, Calcutta 700036.

Metal Wares & Printing Works, 3, Jagmohan Lane, Calcutta 700007.

National Alloy & Metal Works Pvt. Ltd., 17, N. C. Das Lane, Sinthee, Calcutta 700050.

Sree Gopal Tin Factory Pvt. Ltd., 109B, Raja Dinendra St., Calcutta 700004.

Shyamnagar Tin Factory Pvt. Ltd., 62, Sri Nagendranath Rd., Satgachhi, Dum Dum, Calcutta 700028.

Tinplate Co. of India Ltd., 4, Bankshall St., Calcutta 700001.

TIN PRINTERS & BOX MANUFACTURERS

Maharashtra

Kiv Trading Co., 1st Parsiwada, Ketwadi, Bombay 400004.

Metal Printers Co., Bhupen Chambers, Dalal St., Bombay 400001.

Oriental Containers Ltd., 1076, Dr. E. Moses Rd., Worli, Bombay 400018.

Zenith Tin Works Pvt. Ltd., K. Khadye Marg, Bombay 400034.

TOOLS, DIAMOND

Bharat Diamond Ind., Nagin Mahal, V. Nariman Rd., Bombay 400001.

Bhukhanvala & Sons, Medows House, Medows St., Bombay 400001.

Diamond Cutting & Trdg. Co. Pvt. Ltd., Daya Mandir, Mumbadevi, Bombay 400003.

Engg. Tooling Equipment Co., 72/80, Nagdevi Cross Lane, Bombay 400003.

Forbes, Forbes Campbell & Co. Ltd., Forbes Bldg., Home St., Bombay 400001.

Industrial Diamond & Tool Co., 4, Bhagavatlal Lane, Madras 600003.

Industrial Jewels Pvt. Ltd., Victoria Park, Bhavnagar 364001.

Killick Ind. Ltd., Killick Bldg., Home St., Bombay 400001.

L. M. Van Moppes Diamond Tools India Ltd., Exide House, 150-B, Mount Rd., Madras 600002.

New India Hardware Mart, 152, N. Dhuru St., Bombay 400003.

Star Diamond Tools, 60, Sir P. Mehta Rd., Bombay 400001.

Voltas Ltd., Graham Rd., Bombay 400001.

TOOLS, CUTTING—MILLING CUTTERS, REAMERS, TWIST DRILLS

A. K. Bhattacharya & Sons Pvt. Ltd., 35, Stephen House, Dalhousie Sq., Calcutta 700001.

Addison & Co. Ltd., 158, Mount Rd., Madras 600002.

Bharat Tool Manufg. Co. Pvt. Ltd., Swastik Mill Compound, Fergusson Rd., Bombay 400013.

Binani Metal Works Ltd., 38, Strand Rd., Calcutta 700001.

Burn & Co. Ltd., 158, Mount Rd., Madras 600002.

Crescent Iron & Steel Corpn. Ltd., Ind. Estates, Lalbaug, Bombay 400012.

Dagger Frost Tools Ltd., 1st Pokhran Rd., Thana 400601.

Gannon Dunkerley & Co. Ltd., Chartered Bank Bldg., Bombay 400001.

Hada Tools Ltd., 27-A, Camac St., Calcutta 700016.

Harbanslal Malhotra & Sons, Ltd., 12, New CIT Rd., Calcutta 700012.

Indian Tool Manufrs. Ltd., 2/11, Ansari Rd., Darya Ganj, Delhi 110006.

Jairamdas Udyog Pvt. Ltd., Silver Jubilee Park Rd., Bangalore 560001.

Laldee Pvt. Ltd., Vijaya Press Bldg., Naya Bazar, Delhi 110006.

Omicron Tool Works, IV Main Rd., 15th Cross, Mallesvaram, Bangalore 560003.

Orient Tools & Gauges Ltd., 65, N. M. Mudaliar Rd., Aminjikarai, Madras 600029.

Patiala Tools Corpn., Giriraj, S. Tukaram Rd., Bombay 400009.

Repetitions Parts Pvt. Ltd., Agra Rd., Bhandup, Bombay 400078.

Rib Taps (India) Pvt. Ltd., 399, Old P.O. St., Delhi 110006.

S. R. P. Tools Ltd., Lattice Bridge, Madras 600041.

S. S. Miranda Pvt. Ltd., Mount Rd., Mazagaon, Bombay 400010.

Sandvik Asia Ltd., Pimpri, Pune 411018.

Small Tools Manufg. Co. of India Ltd., P-17, Ganesh Chandra Ave., Calcutta 700013.
Super Tools Pvt. Ltd., Kalina, Santa Cruz, Bombay 400029.
Taps & Dies Ltd., P-17, Mission Row Extn., Calcutta 700013.
Threadwell Gauges & Tools Co., G-14, Ind. Estate, Madras 600058.
Tools & Equipment Pvt. Ltd., 6-13, Ind. Area, New Delhi 110015.
Tool Room Services Pvt. Ltd., B-21, Ind. Estate, Madras 600058.
Voltas Ltd., 19, Graham Rd., Bombay 400001.

TOOLS, DRILLING

Indian Minidrills Pvt. Ltd., 35/2, Residency Rd., Bangalore 560025.
Indian Tool Manufrs. Ltd., 101, Sion Rd., Sion, Bombay 400022.
Ingersoll-Rand (India) Pvt. Ltd., 44, M. A. Gaffar Rd., Worli, Bombay 400018.
Jairamdas Udyog Pvt. Ltd., 157-159, N. Dhuru St., Bombay 400003.

TOOLS—HAND & OTHER MISC. SMALL TOOLS

Andhra Pradesh

Praga Tools Corpn. Ltd., Secunderabad 500003.

Bihar

Tata Iron & Steel Co. Ltd., Jamshedpur 831001.

Haryana

Dhand Engrs. Pvt. Ltd., Ind. Area, Faridabad 121001.
Ratanchand Hajasrai (Plastics) Pvt. Ltd., Ind. Area, Faridabad 121001.

Maharashtra

Ace Tools Pvt. Ltd., B-5, Co-op. Ind. Estate, Nasik 422001.
Accurate Engineering Co. Pvt. Ltd., 67, Hadapsar Ind. Estate, Post Bag No. 1202, Pune 411013.
Asha Bros. Pvt. Ltd., 1-B, Patel Rd., Goregaon, Bombay 400063.
Bahco Taparia Tools Ltd., 20, Old Custom House Rd., Bombay 400001.
Chandulal Mehta & Co. Pvt. Ltd., 9, New Queen's Rd., Bombay 400004.
Echjay Ind. Pvt. Ltd., Kanjur Village Rd., Bombay 400078.
Lal-Roe Measuring Tools Pvt. Ltd., 19, Chinch Bunder, Bombay 400009.
Mapa Tools Pvt. Ltd., Gamdevi Rd., Bombay 400078.
Proto Machine Tools Manufg. Co. Pvt. Ltd., Dinesh Mills Compound, Agra Rd., Bhandup, Bombay 400078.
Rallis India Ltd., Ralli House, 21, Raveline St., Bombay 400001.
Shivaji Works Ltd., Tikekarwadi, Sholapur Dist.
Tools & Components Combine Pvt. Ltd., 10, Dhanji St., Bombay 400003.

Mysore

Mysore Implement Factory, Hassan, 573201.
Mysore Tools Ltd., Mysore Rd., Bangalore 560026.

Punjab

Doaba Hand Tools, Tanda Rd., Jullundur 144001.

Tamil Nadu

All Tools Pvt. Ltd., Singanallur, Coimbatore 641001.
Orient Tools & Gauges Ltd., 65, N. M. Mudaliar Rd., Madras 600029.
S. S Engineering Works, 301, Tiruvottiyur High Rd., Madras 600081.

Uttar Pradesh

Delhi Iron & Steel Co. Ltd., Grand Trunk Rd., Ghaziabad 201001.

West Bengal

Agarwal Hardware Works Pvt. Ltd., 167, Chittaranjan Ave., Calcutta 700007.
Alfred Herbert India Ltd., 13/3, Strand Rd., Calcutta 700001.
Bardson & Co., 138, Biplabi R. B. Basu Rd., Calcutta 700001.
Bengal Tools Ltd., 251-1, Nagendranath Rd., Calcutta 700028.
Bharat Shovel Works Pvt. Ltd., 15-1, Jorabagan St., Calcutta 700006.
East Coast Enterprises Ltd., 33, Brabourne Rd., Calcutta 700001.
Eastern Cutleries & Tools Manufg. Co. Pvt. Ltd., P.O. Jhalda, Purulia 723101.
Harbanslal Malhotra & Sons Pvt. Ltd., 18, N. Subash Rd., Calcutta 700001.
Jay Engg. Works Pvt. Ltd., 183, P. Anwarshah Rd., Calcutta 700001.
Metal Box Co. of India Ltd., 58-C, Chowranghee St., Calcutta 700020.
Stamping & Tools Pvt Ltd., 42-1, Strand Rd., Calcutta 700007.
Sudson Pvt. Ltd., 3, Esplanade East, Calcutta 700001.
Tools & Engg. Co. Pvt. Ltd., 2, Dalhousie Sq. East, Calcutta 700001.

TOOLS, MACHINE

Andhra Pradesh

Hindustan Machine Tools Ltd., Balanagar, Hyderabad 500037.

Delhi

Ameteep Machine Tools Pvt. Ltd., 503 Suriya Kiran Bldg., 19, K. Gandhi Marg, New Delhi 110001.
Ashoka Machine Tools Corpn., 8712-13, Aram Ganj, Roshanara Rd., Delhi 110007.
Indudyog Co. Pvt. Ltd., 40 Okhla Ind. Estate, Okhla, New Delhi 110020.
Motor & Machinery Manufrs. Ltd., 8, Sunder Nagar, New Delhi 110003.
Prem Engg. Works, 22, Okhla Ind. Estate, New Delhi 110020.
United Machine Tools Corpn., 18, D.L.F. Ind. Area, Najafgarh Rd., New Delhi 110015.

Gujarat

Gandhi Group Ind., F-4, Ind. Township, Naroda, Ahmedabad 380001.
Gujarat Machine Tools Ind., 1/10, Ind. Estate, Vadodara 390003.

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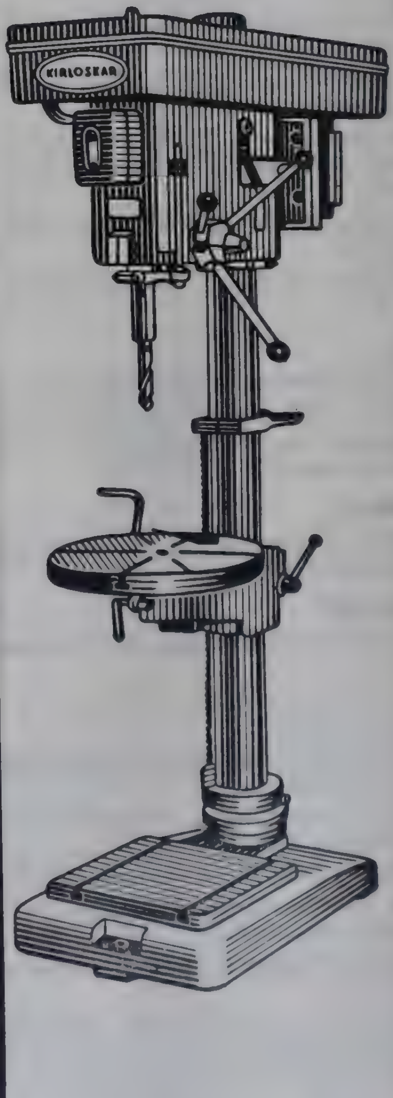

OBM-8581

Laxmi Vijay Brass & Iron Works, 647, Ghaekanta Rd., Ahmedabad 380001.
Yo-tana Machine Tools, Mill Officer's Colony, Behind La Gajjar Chambers, Ashram Rd., Ahmedabad 380009.

Maharashtra

Alex Machine Tools, 2, Sidhpura Ind. Estate, S. Vivekanand Rd., Goregaon West, Bombay 400062.
Alfred Hebert (I) Ltd., Kaiser-i-Hind Bldg., Sprott Rd., Ballard Estate, Bombay 400001.
Bharat Fritz Werner Pvt. Ltd., D-27, Commerce Centre, Tardeo, Bombay 400034.
Bharat Tool Manufg. Co. Pvt. Ltd., Ferguson Rd., Lower Parel, Bombay 400013.
Godrej & Boyce Manufg. Co. Pvt. Ltd., Godrej Bhavan, Home St., Bombay 400001.
Industrial Machinery Manufrs., 14-B, Kurla Ind. Estate, Agra Rd., Ghatkopar, Bombay 400086.
Industrial Machinery & Tools Corpn., Gokhale St., Bombay 400004.
Janata Machine Tools Ltd., Majiwada, Thana 400601.
Machinery Manufg. Corpn., 68, Medows St., Bombay 400001.
Macphil & Co. Pvt. Ltd., B-3, Wagle Ind. Estate, Panchpakhadi, Thana 400601.
Tata Engg. & Loco. Co. Ltd., Bombay House, Bruce St., Bombay 400001.
Thakoor Machines & Tools Pvt. Ltd., "Yojana", M. Vasanji Rd., Marol Naka, Andheri East, Bombay 400059.
Tekma Ind., 48B, Saki Vihar Rd., Saki Naka, Bombay 400072.
Y. A. Hazare & Bros., 1st Panjrapole Lane, Bombay 400004.

Mysore

Bharat Fritz Werner Pvt. Ltd., Peenya, Bangalore 560022.
Jyothi Ind., A-18, H.M.T. Ind. Estate, Bangalore 560031.
Sri Venkateshwara Enterprises, B-09, H.M.T. Ind. Estate, Bangalore 560031.

Tamil Nadu

Sri Lakshmi Engineers, 123, Cross Cut Rd., Gandhipuram, Coimbatore 611012.

West Bengal

Alfred Herbert India Ltd., 13/3, Strand Rd., Calcutta 700001.
Asia Engg. Supply Stores, Pvt. Ltd., P-15, Bentinck St., Calcutta 700007.
Continental Plant Machinery Co. Pvt. Ltd., 16 Hare St., Calcutta 700001.
Industrial Plants Ltd., "Industry House", 10, Camac St., Calcutta 700017.
Jessop & Co. Ltd., 63, N. Subash Rd., Calcutta 700001.
Machine Tools & Appliances India Co., 12-B, N. Subash Rd., Calcutta 700001.
National Ind. Impex Corpn., 35, Stephen House, Calcutta 700001.
Oriental Electric & Engg. Co., National Tobacco Bldg., 1, Old Court House Corner, Calcutta 700001.
Paul's Engg. Co., P-7, N. Paul Rd., Howrah 711105.

TRACTORS & SPARE

Delhi

Agarwal Engg. Co., 11-A-36, Lajpatnagar, Link Rd., New Delhi 110024.
Chopra Tractor & Auto Traders, B-4/7, Model Town, Delhi 110009.
Escorts Ltd., 11, Scindia House, Connaught Circus, New Delhi 110001.
Verma Trdg. Co., S. P. Mukherji Marg, Delhi 110006.

Gujarat

Hindustan Tractors Ltd., Vishwamitri, Vadodara 390001.

Haryana

Eicher Tractor Corpn. (India), Pvt. Ltd., Faridabad 121001.
Indian Landsbury Implement Corpn. Pvt. Ltd., Faridabad 121001.

Maharashtra

International Tractor Co. of India Ltd., Akurli Village Kandivli, Bombay 400067.
Maharashtra Co-op. Engg. Soc. Ltd., Shiroli, Kolhapur 416001.
Tata Engg. & Loco. Co. Ltd., Bombay House, Bruce St., Bombay 400001.
Tractor Engrs. Ltd., Saki-Vihar Rd., Powai, Bombay 400072.

Mysore

Bharat Earth Movers Ltd., Unity Bldgs., Jayachamarajendra Rd., Bangalore 560002.
Hindustan Machine Tools Ltd., Bangalore 560031.
U.S.T. Tiller Tractors Ltd., M. Gandhi Rd., Bangalore 560001.

Punjab

Punjab Tractors Ltd., Sector 9-A, Chandigarh 160017.

Tamil Nadu

Trac Ind. & Components Ltd., 12, Cenotaph Rd., Madras 600018.
Tractor & Farm Equipment Ltd., 11, Kothari Rd., Madras 600014.

Uttar Pradesh

Track Parts of India, Star Press Bldg., The Mall, Kanpur 208001.

West Bengal

Ganesh Trdg. Corpn., 36, Ezra St., Calcutta 700001.

TOOLS—TAPS, DIE TOOL, JIGS, FIXTURES ETC.

Afco Ltd., 253, A-Z Ind. Estate, Fergusson Rd., Bombay 400013.
Addison & Co., Pvt. Ltd., 158, Mount Rd., Madras 600002.
Arifta Die & Tool Engrs, Plot A-20, Marol Ind. Area, Off Mahakali Caves Rd., Andheri East, Bombay 400059.
Asha Bros. Pvt. Ltd., 1-B. Patel Rd., Bombay 400063.
Bahco Taparia Tools Ltd., 20, Bhagat Singh Rd., Bombay 400001.
Burn & Co. Ltd., 12, Mission Row, Calcutta 700001.
Dies & Tools Ltd., 11, R. N. Mukherjee Rd., Calcutta 700001.
Electro Slush Co. Pvt. Ltd., Janmabhoomi Bhavan, Ghogha St., Bombay 400001.
Fit Tight Nuts & Bolts Ltd., Kurla, Andheri Rd., Bombay 400069
Forbes, Forbes Campbell & Co. Pvt. Ltd., Forbes Bldg., Home St., Bombay 400001.

Gannon Norton Metal & Diamond Dies Ltd., Chartered Bank Bldg., Bombay 400001.
Guest Keen Williams Ltd., 3A, Shakespeare Sarani, Calcutta 700016.
Harig (India) Pvt. Ltd., G. T. Rd., Mahannagar, Ghaziabad 201001.
Holman Climax Manufrs. Ltd., Titaghur (West Bengal).
Horstman India Pvt. Ltd., Nagar Rd., Pune 411014.
Hyderabad Tools Pvt. Ltd., Mani Nivas, Dibabad Estate, Hyderabad 500001.
J. Stead & Co. Pvt. Ltd., D-19, Ambattur, Ind. Estate, Madras 600058.
Keming Tools Co. Pvt. Ltd., 165/1, Kolshet Rd., Thana 400601.
KIV Group Ind., Sun Mill Compound, Lower Parel, Bombay 400013.
Mukerji & Shah, 36, Panditia Rd., Calcutta 700029.
Nanavati Dies & Tools Pvt. Ltd., P. B. No. 6854, Bombay 400057.
New Dominion Engg. Works, 1/B, Pollery Rd., Calcutta 700015.
Nipha Machinery Manufrs. Pvt. Ltd., 25, N. Subash Rd., Calcutta 700001.
Pitty Bros. Pvt. Ltd., 20, Hamam St., Bombay 400001.
Poona Measuring Tools Co., 60, East Kirkee, Pune 411002.
Precision Taps & Dies Pvt. Ltd., 294-3, C.S.T. Rd., Kalina, Bombay 400029.
Precision Products of India, 10-A, Creek Lane, Calcutta 700014.
Precision Tools India Ltd., 2, Fairlie Place, Calcutta 700001.
Premier Diecasting & Engg. Co. Ltd., Maninagar, Ahmedabad 380008.
Super Automats, 27, Nand Deep, Opp. Marol Bazar, Andheri (East), Bombay 400059.
Widia (India) Ltd., Tumkur Rd., Bangalore 560022.

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Addison & Co. Pvt. Ltd., 158, Mount Rd., Madras 600002.
Asian Tools Trdgs. Co., 24, Nagdevi Cross Lane, Bombay 400003.
Champion Engg. Works Pvt. Ltd., S. Vivekananda Rd., Bombay 400062.
Engg. Tools Syndicate, 111, N. Dhuru St., Bombay 400003.
Christensen Longyear (India) Ltd., L.T. House, Dougal, Rd., Bombay 400001.
Dies & Tools Ind., 13, Jessore Rd., Calcutta 700028.
India Hard Metals Ltd., 58, M. Gupta Rd., Calcutta 700008.
Indian Tools Manufrs. Ltd., 101, Sion, Bombay 400022.
Micro Tools Ltd., C.I.T. Colony, Madras 600004.
Shama Forge Co. Ltd., Belasia Rd., Bhopal 462001.
Usha Forging & Stamping Ltd., 3, Parliament St., New Delhi 110001.

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Ushasri Ind., C-12, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Assam

Assam Tubes Ltd., Sibsagar 785640.

Bihar

Stewart & Lloyds of India Ltd., Jamshedpur.

Delhi

Bharat Steel Tubes Ltd., Allahabad Bank Bldg., 17, Parliament St., New Delhi 110001.
Chandigarh Spun Pipe Co., 181, Golf Links, Delhi 110003.
G.F.R. & Co. Pvt. Ltd., 8200/XIV Chimy Mill St., Bara Hindu Rao, Delhi 110006.
Jindal Ind. Pvt. Ltd., 15/1, A. Ali Rd., New Delhi 110001.
Karori Engg. Works, 16, Najafgarh Rd., New Delhi 110015.
Nangal Spun Pipe Co., 181 Golf Links, Delhi 110003.
National Metal Craft, 8/32, Ajmeri Gage, Delhi 110006.
United Steel Ind., X-242, Near Delhi Gate, Delhi 110006.

Gujarat

Foldage Ind. Pvt. Ltd., Dhebarbhai Rd., Rajkot 360001.
Gujarat Steel Tubes Ltd., Kali Village, Sabarmati, Ahmedabad 380005.
Shri Ambica Tubes, Kankaria Loco Siding, Ahmedabad 380008.
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Lu Bra Diz, 2-B, Bibijan St., Bombay 400003.
M. J. Patel & Co., Nagdevi St., Bombay 400003.
Metal Extruders (India) Pvt. Ltd., Kamani Chambers, Nicol Rd., Bombay 400001.
Zenith Steel Pipes Ltd., Moti Mahal, 195, Churchgate Recl., Bombay 400020.

Orissa

Kalinga Tubes Ltd., P.O. Chowdwar, Cuttack Dist.

Rajasthan

Indo-Flex Pvt. Ltd., Jaipur 302001.

Tamil Nadu

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Madras Tube Co. Ltd., 7, Boat Club Rd., Madras 600028.
Sakthi Pipes Ltd., 4, Smith Rd., Madras 600002.
Tube Investment of India Ltd., N. Beach Rd., Madras 600001
Tubes & Malleables Ltd , 99, Armenian St., Madras 600001.
Tubes Products of India Ltd., 52-53, Jehangir St., Madras 600001.

Uttar Pradesh

Reliable Water Supply Services of India Ltd., 17, Gokhale Marg, Lucknow 226001.

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Castings Corpn. (India) Pvt. Ltd., 45, M. P. Chowdhury Lane, Howrah 711101.
Hind Overseas (Pvt.) Ltd., 7, N. P. Babu Lane, Calcutta 700016.
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Jindal India Pvt. Ltd., Lillooah, Howrah 711101.
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Kesoram Spun Pipes & Foundries, Industry House, 10, Camac St., Calcutta 700017.
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Miller & Co. (Calcutta) Pvt. Ltd., 24, N. Subash Rd., Calcutta 700001.
Orr Dignam & Co., 27, N. Subash Rd., Calcutta 700001.
Patcon Pvt. Ltd., 7A, Elgin Rd., Calcutta 700020.
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Rajasthan Pipes Pvt. Ltd., Bochhraj Rd., Nimtu, Calcutta 700001.
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Stewarts & Lloyds of India Ltd , 41, Chowranghee Rd., Calcutta 700016.
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West Bengal

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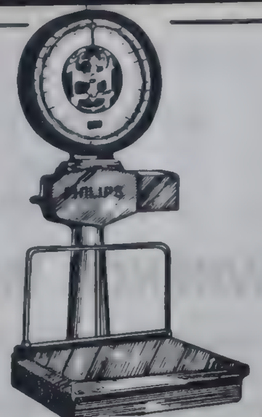

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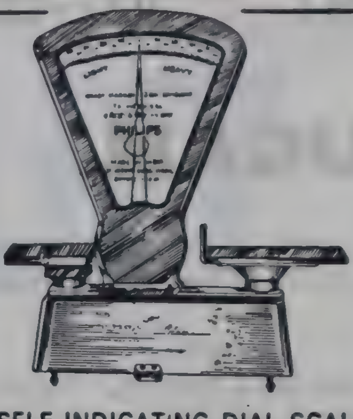

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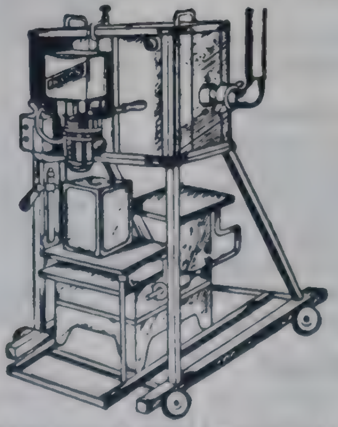

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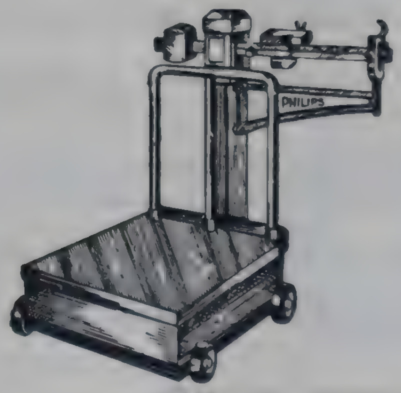

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Eldee Wire Ropes, 3, Broach St., Bombay 400009.

Great India Net Industry, 10, Bruce St., Bombay 400001.

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Orissa Ind. Ltd., Katcheri Rd., Rourkela 1 (Orissa).
P.C.I. (Product) India, 47/1, Old Rajinder Nagar, New Delhi 110060.
Panipat Foods Ltd., Grant Trunk Rd., Panipat.
Pankaj Mercantile Co., 51/55, Kambekar St., Bombay 400003.
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R. D. Ramnath & Co., Jama Masjid, P.O. Box 1805, Delhi 110006.
Ralliwolf Ltd., L. B. Shastri Marg, Mulund, Bombay 400080.
Reliance Heat Transfer Pvt. Ltd., 46, V. Nariman Rd., Bombay 400001.
Richardson Hindustan Ltd., Tiecicon House, Dr. E. Moses Rd., Bombay 400011.
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Eastern Linkers Pvt. Ltd., Central Arts — Block A, Connaught Place, New Delhi 110001.
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Purshottamdas Motilal & Co., Gariba's St., Rangrejni Amli, Cambay.
Ramanlal D. Dudhara, Thapdapole, Near Aling Chakla, Cambay.
Rasik Jewellers, Power House Rd., Cambay.
Rasiklal K. Parekh, Ali, Cambay.

Shantilal M. Patel, Munshi's Polo, Jawahar Rd., Cambay.
Shree Gopinathji Jewellers, Mehtapur, Cambay.
Shreeji Jewellers, Mahetpur, Cambay.
Somchand Babardas Patel, Khatri Bole, Cambay.
Virendra S. Patel, Nagarwada, Cambay.

Maharashtra

Ajay Gem Company, 33, L. K. Market, 156 S. Memon St., Bombay 400002.
Amar Corpn., 18, Vinod Baug, 'A' Juhu Lane, Andheri (West), Bombay 400058.
Amjee & Co., Kalbadevi Chamber, 7 Dadyseth Agiary Lane, Bombay 400002.
Amratlal Jethalal & Co., Kansara Chawl, 94, Kalbadevi Rd., Bombay 400002.
Anandraj B. Jain, 30, Old Satta Gali, S. Memon St., Bombay 400002.
Anil Art Diamond Co., 130, S. Memon St., Bombay 400002.
Anish Jewellers, Mani Bhuvan, 81/83, N. Desai Rd., Bombay 400004.
Avanish Jewellers, 182, S. Memon St., Opp. Bank of India, Bombay 400002.
Babalchand & Co., Shanti Bhavan, Opp. Cotton Exchange, Bombay 400002.
Babubhai Chaturlal, 108, S. Memon St., Bombay 400002.
Babubhai Jhaveri & Co., Haji Manzil, 82-86, A. Rehman St., Bombay 400003.
Bala Appaji & Son, 9A, Bruce St., Bombay 400001.
Ballabhdas & Co., 82-84, S. Memon St., Bombay 400002.
Bapalal Keshavlal, 121-125, S. Memon St., Bombay 400002.
Basantlal M. Gandhi, 10, Old Satta Galli, Bombay 400002.
Bharat Ratanchand Jhaveri, 55/57, Mirza St., Bombay 400003.
Bhogilal K. Patel, 204, Anand Bhuvan, V. Patel Rd., Bombay 400004.
Cambay Agate Stones & Jewellery Trdg. Corpn., 47, Jawahar Mansion, Fanaswadi, Bombay 400002.
Carpets Palace, Merewether Rd., Opp. Taj Mahal Hotel, Bombay 400001.
Chhotalal B. Mehta & Sons, 164, Fanaswadi, Bombay 400002.
Chinubhai Keshavlal, 78A, S. Memon St., Bombay 400002.
Chunilal & Co., 17-19, Dhanji St., Bombay 400003.
Dahyalal Makenjee Zaveri, 98, S. Memon St., Bombay 400002.
David Gad & Co., 8, Bombay Mutual Bldg., 293, Dr. D. Naoroji Rd., Bombay 400001.
Dhandia Jewellers, 17/19, Dhanji St., Bombay 400003.
Dharamchand Keshrichand Jhaveri, 245, Mumbadevi Rd., Bombay 400002.
Dhirubhai & Co., Johrawal Bhawan, 93, Queen's Rd., Bombay 400002.
Diamex Corpn., 238/40, Nagdevi St., Bombay 400003.
Dinkerlal L. Kothari, 'Aasha', Raghavji Rd., Gowalia Tank, Bombay 400026.
D. P. Shah & Co., 5, Anand, Azad Rd., Bombay 400057.
Dresp Gems, 55/57, Mirza St., Bombay 400003.
Gazdar Pvt. Ltd., Taj Mahal Hotel, Apollo Bunder, Bombay 400001.
Ghanshyam Chimanlal, 207, Sadhna, Wadala, Bombay 400031.
Gem India Corpn., 50/52, Shamset St., Bombay 400002.
Gem Stars, Prakash No. 2, 28 Ridge Rd., Bombay 400006.
Gemstrade, 51, Monalisa, 10, B. Petit Rd., Bombay 400036.
Gems Trdg. Co., 654, Girgaum Rd., Bombay 400002.
Genuine Gems Co., 64-A, S. Memon St., Bombay 400002.
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Gordhandas Sons, 190, S. Memon St., Bombay 400002.
Gulabchand Bhaichand, 72, S. Memon St., Bombay 400002.
Gulabchand Kasliwal, Kasliwal Bhavan, 35, 3rd Bhoiwada Lane, Bombay 400002.
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Hansraj Velchand Mehta, 191 A, Gujarat Society, Sion Rd., Bombay 400022.
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Hasmukhlal Jamnadas, Ajanta Apartment, Walkeshwar Rd., Bombay 400006.
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Hirachand Sobhagchand & Bros., Giri Chhaya, Chowpatty Band Stand, Bombay 400006.
Hotchand Hiranand, Ramchandra Bldg., 280, Carnac Rd., Bombay 400002.
Indian Gem House, 205, Mumbadevi Rd., Bombay 400002.
International Gems Export (India) Corpn., Dharampal Mahal, 20, Sadashiv St., Bombay 400004.
International Gems & Pearls Co., Ratna, 67-B, Linking Rd., Khar, Bombay 400052.
International Tradexport, 201, Mumbadevi Rd., Bombay 400002.
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Javerchand Laxmichand, 271-73, Mumbadevi Rd., Bombay 400002.
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Pallak Commercial Corpn., 13, Mirza St., Bombay 400003.

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Pregems Corpn., Natvar House, 42, A. Rehman St., Bombay 400003.

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S. Gupta & Co., 26-27, 3rd Pasta Lane, Bombay 400005.

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Shantilal & Co., 205, Mumbadevi Rd., Bombay 400002.

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Shine India Corporation, Laxmidas Market, 156, S. Memon St., Bombay 400002.

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Thakur's Gem & Jewellery, 306, Krishna Kunj, Tulsi Pipe Rd., Matunga, Bombay 400016.

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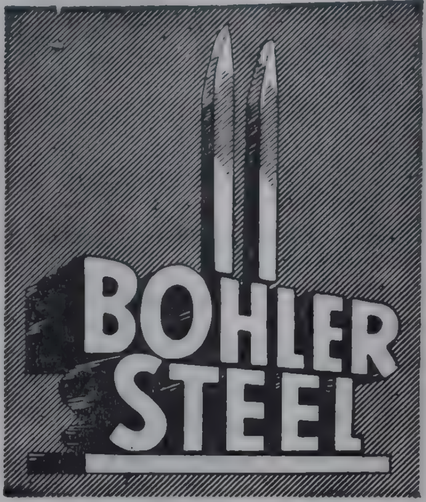

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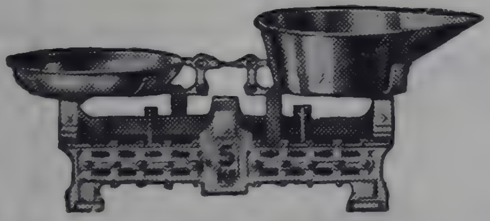

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R. R. Sharma, 1, South Ave., Alwarpet, Madras 600018.
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S. R. Fernando, 310/311, L. Chetty St., Madras 600001.
T. M. Jambulingam, 89-A, East Veti St., Madurai 625001.
T. N. Subramaniam, 1/11, M. Nallemuthu St., Madras 600001.
T. Venkateswarloo, 2, Syrian Church Rd., Coimbatore 641001.
V. M. Narasimhan, 17, T. P. Koil St., Triplicane, Madras 600005.

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A. N. Kerr, 12-P, Park St., Calcutta 700016.
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A. Sen Gupta & Associates, 34, G. Chandra Ave., Calcutta 700013.
Architects Associated, 31, Chittaranjan Ave., Calcutta 700012.
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B. K. Banerjee & Associates, 14-A, S. N. Banerjee Rd., Calcutta 700013.
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Bhagwati & Kumbhani, P. 35, India Exchange Place, Calcutta 700001.
Biswas Ghosh & Associates, 19, Queen Mansion, 12, Park St., Calcutta 700016.

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Chatterjee & Polk, Narayani Bldgs., 27, Brabourne Rd., Calcutta 700001.
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Civcon (Architects), 10, Chowringhee Mansion, 30, J. Nehru Rd., Calcutta 700016.
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Cash & Investments in Govt. Securities	Rs.	10,20,99,000
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Working Capital	Rs.	15,73,69,000
Annual Turn-over exceeds	Rs.	3,78,00,00,000
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Manager: Mr. A. G. Hageman.

Also at: 15/16, Kondi Chetty Street.

New Delhi: New Delhi Branch: 3, Parliament Street, New Delhi. Phone: 311116. Grams: " CITIBANK ". Telex: 2332. P.O. Box 520.
General Manager: Mr. L. S. Roncari.

DENA BANK

(A Government of India Undertaking)

Head Office : Horniman Circle, Bombay 400001.
Total Deposits : Rs. 218 Crores as on 31st December 1972.
Total Advances : Rs. 128 Crores as on 31st December 1972.
Number of Accounts : 12 lakhs as on 31st December 1972.

527 Branches in 14 States and 4 Union Territories and 84 Safe Deposit Vaults as on 31st December 1972.

Maharashtra : BOMBAY : *H.O. Horniman Circle, Andheri, Ballard Estate, Bandra, *Bhandup, Bhat Bazar, Bhuleshwar, *Borivli, Borivli (Mount Poinsur), Chembur, *Colaba, Colaba Road, Dadar :—Khodadad Circle, *Dadar : Ranade Road, *Ghatkopar, Gol Deval, *Goregaon, Govandi-Deonar, Gulalwadi, Gowalia Tank, *Jogeshwari (East), *Jogeshwari (West), *Juhu : Vile Parle, Kalbadevi, *Kandivli, Khar Ghodbunder Road, Khar Linking Road, Kharek Bazar, Kurla, Kurla (North), Lower Parel, Mahim, *Malabar Hill, *Malad (East), *Malad (West), Malad (West) Orlem, Mandvi, Marol, *Matunga, *Mulund, Nagdevi Street, *New Gamdevi, Parel, *Pedder Road, Sachivalaya Corner, Sandhurst Bridge, *Santacruz (East), *Santacruz (West), *Share Bazar, Sion, *Tardeo, Thakurdwar, Trombay, *Versova, *Vile Parle (East), *Vile Parle (West), *Wadala, Worli, *Zaveri Bazar.

Ahmednagar, *Ambernath, Angar, Arjuni Moregaon, **AURANGABAD :** Juna Bazar, Kranti Chowk ; Baramati, Bhayandar, Boisar, Chawk, Chinchani, Chopda, Dahanu Road, Degaon, Deola, Deori, **DHULIA :** *Khol Galli, Market Yard ; Erandol, Gandhinagar, Gondla, Igatpuri, Jalgaon, Kagal, Kalyan, Kelva-Mahim, Khapa, Kolhapur, Kundalwadi, Loha, Mahagaon, *Malegaon, Manmad, Mokhada, Mudkhed, Murud, Nagpur, Nampur, Nanded, Nandurbar, Nagothana, Navegaon Bandh, Nasik City, Nasik Road, *Palghar, Peth Umri, **PUNE :** Budhwar Peth, *Camp, *Deccan Gymkhana, *Raviwar Peth, Swar Gate ; Ravalgaon, Revdanda, *Sailu, Sandur, Saphala, Satana, Shahad, Shirgaon-Satpati, Shirpur, **SHOLAPUR :** Navipeth, West Mangalwar, Surgana, *Thana, Tirora, Trymbak, Ullasnagar, Uttan, Vangaon, Vinchur, Walchandnagar, Yeola.

Gujarat : AHMEDABAD : Amraiwadi, Asarva, Astodia, *Delhi Chakla, *Ellis Bridge, *Gandhi Road, *Manek Chowk, *Maninagar, Maskati Market, *Naranpura, Naroda, *Navrangpura, Pushpakunj, *Relief Road, *Sarangpur, *Saraspur, Shahibag, Shahpur, Shardanagar Society, Aat, Adas, Adadra, Adesar, Adhoi, Adipur, Aglod, Ajarpura, Akoti, Amran, Amreli, *Anand, Ankleshwar, Bagasara, Bajana, Bajipura-Kamalchhod, *Balambha, Balasinor, Bantwa, Bhadran, Bhayavadar, Bardoli, Barejadi, Barwala, Bechraji, Bedi, Bhabhar, Bhachau, Bhadrod, Bharapar, **BHARUCH :** Lallubhai Chakla, Station Road, **BHAVNAGAR :** *Khar Gate, *Panwadi ; Bhiladi, Bhiloda, *Bhuj, *Bhujpur, Bhunav, *Bidada, Billimora, *Borsad, *Botad, Buhari, Byt, Cambay, Chalala, Chaloda, Chanasma, Chandod, Chandkheda, Choila, Chorwad, Dabhoi, Dakor, Damnagar, Dangarwa, Danta, Dediapada, Deesa, Dehej, Dehgam, Delwada, Detroj, Dhandhuka, Dhank, Dharampur, Dhari, *Dharmaj, Dhasa, Dhoraji, Dholera, Dholka, Dhrangadhra, Digvijaynagar, Fansa-Maroli, Gadh, Gadhsisa, Gandevi, *Gandhinagar (Capital of Gujarat), Gariadhar, Gerita Kolwada, Godhra, Godhra (Kutch), Gondal, Gopalgram, Gunja, Halwad, Harij, Harsol, Himmatnagar, Idar, Jadar, Jagudan, Jalalpore, Jamkandorna, Jambusar, **JAMNAGAR :** Grain Market, Kapad Bazar, Jasdan, Jetalpur, Junagadh, Kabilpore, Kadi, *Kadod, Kakoshi, Kalawad-Shitla, Kaloi, Kamrej, Kandla (Free Trade Zone), Kanodar, Karamsad, Kasbapar, Katargam, Katosan, *Kera, Keshod, Kharel-Gandeva, Khattalwada, Khawda, Khedbrahma, Kheralu, Khoj Pardi, Kodinar, Kotda, Kotda Pitha, Kothara, Kuched, Kumbharia, Lakhpat, Lathidad, Limdi, Linch, Lunawada, Madhapar, Mahudha, Mahuva, Malpur, *Manavadar, Mandala, Mandvi (Dist.: Kutch), Mandvi (Dist.: Surat), Mangrol, Mankuva, Meghraj, Mehmedabad, Mehsana, Mehsana Taluka-5 Satellite Offices, Mendarda, Meta, Mirzapar, Modasa, Modasa Taluka-6 Satellite Offices, Mokhasan, Morvi, Mota-Ankadia, Mota-Samadhiyala, *Mundra, Mundra Taluka-5 Satellite Offices, **NADIAD :** Santh Pipli, Dumral Bazar, Nageshri, Nandasan, Napa, Nargol, *Navsari, Nesdi Netra (Kutch), Nizar, Ode, Padra, Palanpur, Pallad, *Palitana, Palsana, Pansar, Parla, Patan, Petlad, Piludra, *Porbandar, Porbandar (with Mobile Van Service), Poshina, Prantij, Puna, Radhanpur, Rahtar Rahpar-5 Satellite Offices, **RAJKOT :** *Canal Road, *Para Bazar, Rajula, Ramparvekra, Rampura, Ranakandorna, Rania, Ravapar, Rupal, Saij, Salaya, Samatra, Sami, Samroli, Sanand, Santrampur, Sarapdad, Sarasiya, Sardoi, Sarkhej, Satlasna, Savarkundla, Sevalia, Sevni, Shertha, Shivrajpur, Sidhpur Sihor Sihori, Singod, Sinor, Sipore, Sisodra, Siyani, Sonasan, Surali, **SURAT :** Burhanpuri, Bhagol, Nanavarchha, Nanpura, Rampura ; *Surendranagar Tadkeshwar, Talod, Tana, Thangadh, Thara, Tikar, Tintoi, Tundav, Udhna, Ugamedi, Ugat, Umreth, Una, Unjha, Upleta, Vadadala, Vadgam, Vadnagar, **VADODARA :** Chokhandi Bazar, Jubilee Garden, Sayaji Ganj, Valam, *Valsad, Vanda, Vankia, Vapi, Varahi, Vatwa, Vejalpur, Veraval, Vijapadi, Vijayanagar, Viramgam, Visavdar, Visnagar, Waghodia, *Wankaner, Wav.

Andhra Pradesh : Dharmaram, Hyderabad, Saroornagar, Secunderabad, Shamshabad, Tandur, Vijaywada.

Bihar : Bakhtiarpur, Bhagalpur, Jamshedpur, Patna.
Chandigarh : Chandigarh.

Dadra and Nagar Haveli : Amli, Daman, Khanwel, Naroli, Silvasa.

Delhi : DELHI : Alipore Marg, Chandni Chowk, Daryaganj, G. B. Road, Najafgarh Road, Sabzi Mandi. **NEW DELHI :** Chhattarpur, Connaught Circus, *Karol Baug, Okhla, Wazirpur.

Goa : *Aldona, Arpora, Loutulim, *Panaji, Parra, Pombur Paulim, Ponda, Tivim, Velha Pilar, Verem.

Haryana : Rohtak.

Kerala : Cochin, Cochin (Naval Base), Ernakulam, Udyogmandal.

Madhya Pradesh : Abhanpur, Arang, Basna, Bhopal, Bir, Burhanpur City, Burhanpur Lal Baug, Chhuikhadan, Dhamtari, *Dhar, Dongargadh, Durg, Gariaband, Gudiari, Gunderdehi, Gwalior, Harda. **INDORE :** Sitlamata Bazar, *Siyaganj, Khandwa, Kharora, Khursipar, Kurud, Mandsaur, Raipur, Rajim, Rajnandgaon, Shahpur, Thankamaria, Tilda, Ujjain.

Mysore : **BANGALORE :** Indira Nagar, J. C. Road, *Kempegowda Road, Budigere, Jigani, Mangalore, Patrenahalli, Sarjapura.

Punjab : *Amritsar, *Jullunder, *Ludhiana.

Rajasthan : *Jaipur, Ramgadh.

Tamil Nadu : Gummidipundi, **MADRAS :** China Bazar, Hamilton Bridge, Mount Road, T. Nagar, Madurai.

Uttar Pradesh : Ahiar, Aligadh, Allahabad, Lalganj, Raibareli, **LUCKNOW :** *Hazarat Ganj, Nadan Mahal Road, *Meerut Cantt, Moradabad.

West Bengal : Asansol, **CALCUTTA :** *Bhowanipore, Brabourne Road, Burra Bazar, Park Street, Rashbehari Avenue, *Shyam Bazar, Howrah.

Orissa : Cuttack.

*Branch with Safe Deposit Vault.

General Banking Business Transacted and Inland and Foreign Letters of Credit Arranged

London Agents :
The Chase Manhattan Bank N.A.
Bank of America N.T. & S.A.
Midland Bank Ltd., Barclay's Bank Ltd.,
Bank of Baroda.

WEST GERMANY
Deutsche Bank A.G. Hamburg.

New York Agents :
The Chase Manhattan Bank N.A.
Manufacturers Hanover Trust Co.

THE MAHARASHTRA STATE CO-OPERATIVE BANK LIMITED, BOMBAY.

(Incorporating the Vidarbha Co-operative Bank Ltd.)

Head Office:
9, Bakehouse Lane,
Fort, Bombay-1.

Regional Office:
Mahal, Nagpur.

Collection arrangements in all important cities.
Banking business of every description transacted.
Deposits of all kinds accepted.

	As on 30-6-1972
Capital and Reserves	**Rs. 2,068 lakhs**
Total Deposits	**Rs. 10,423 lakhs**
Working Capital	**Rs. 20,468 lakhs**

Branches in Greater Bombay:

1. Andheri
2. Borivli
3. Byculla
4. Chembur
5. Dahisar
6. Goregaon
7. Khar
8. Lalbaug
9. Mahim
10. Matunga
11. Malad
12. Mulund
13. Prabhadevi
14. Santacruz
15. Sion
16. Vile Parle (East)
17. Vile Parle (West)
18. Vikroli
19. Andheri — Versova
20. Bandra (East)
21. Bandra (West)
22. Kandivli (East)
23. Parel

Apex of the integrated Co-operative Credit Structure with over 1,000 offices of Central and Urban Co-operative Banks in the State.

STATE BANK OF INDIA

(Constituted under the State Bank of India Act, 1955)

Authorised Capital	Rs. 20,00,00,000
Paid-up Capital as on 31-12-1972	Rs. 5,62,50,000
Reserve Fund & other Reserve as on 31-12-1972	Rs. 19,60,75,052

Local Head Offices :

Calcutta, Bombay, Madras, New Delhi, Kanpur, Ahmedabad, Hyderabad, Bhopal & Patna.

Foreign Offices :

London Offices : Clements House, 14/18, Gresham Street, London, E.C. 2P 2JP.
Clarendon House, 10/12, Clifford Street, London W. 1.

New York : 460, Park Avenue, New York, N.Y. 10022.

Ceylon : 16, Prince Street, Colombo-1, Ceylon.

Representative Offices :

(a) Western Europe : Goethestrasse 26-28, 6, Frankfurt (Main), West Germany.
(b) Middle East : Arab Bank Building, Raid El-Solh Street, P. O. Box No. 7252, Beirut (Lebanon).

Total Number of Offices: 2,765 upto 31st Dec. 1972
Chairman : Shri R. K. Talwar.
Managing Director : Shri T. R. Varadachary.

Names of Subsidiaries :

State Bank of Bikaner & Jaipur, State Bank of Hyderabad, State Bank of Indore, State Bank of Mysore, State Bank of Patiala, State Bank of Saurashtra and State Bank of Travancore.

NATIONAL AND GRINDLAYS BANK LTD.

(Amalgamating National Bank of India Ltd., Grindlays Bank Ltd., The Eastern Branches of Lloyds Bank Limited and Branches of The Ottoman Bank outside Turkey and Western Europe).

Registered in London under the Companies Act of 1862 on 23rd March 1866. Established in Calcutta on 29th September 1863.

The Liability of Members is limited.

Head Office : 23, Fenchurch Street, London E.C. 3.

The Bank conducts all classes of Banking and Exchange Business throughout the World. Trusteeships and Executorships are undertaken. A Merchant Banking Division operates from Bombay.

Bombay Branches : 90, Mahatma Gandhi Road ; Mint Road (Corner of Mint Road and Sir P. M. Road) ; 270/272, Dr. Dadabhoy Naoroji Road (Lloyds Branch); 21/29, Shamaldas Gandhi Marg (Lloyds Branch), Bombay 2; 110/111, Kazi Syed Street, Mandvi, Bombay 3 ; 65F, Linking Road, Santa Cruz (West), Bombay 54 ; Shivaji Mandir, N. C. Kelkar Road, Dadar, Bombay 28 ; 574, August Kranti Marg, Cumballa Hill, Bombay 26 ; 24B, Club Road, Byculla (Next to Maratha Mandir), Bombay 8 ; Shivaji Path, Jambhli Naka, Thana via Bombay, N. Bombay ; 377, Swami Vivekananda Road, Vile Parle, Bombay 56 ; 43, Mahatma Gandhi Road, Ghatkopar, Bombay 77.

Bankers Associated : First National City Bank, Lloyds Bank Limited.

WE PAY YOU FOR TAKING CARE OF YOUR MONEY

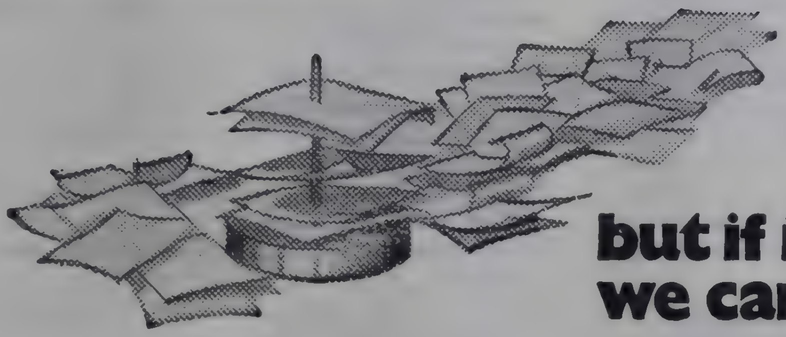
open a savings account
with Syndicate Bank
and watch your money
grow with interest
added to it.

SYNDICATE BANK

Head Office: Manipal (Mysore State)

Branches: Over 570

K. K. PAI, *Managing Director.*



Interpub/UB/4A/72

Paying bills isn't one of our worries

but if it's yours, we can help you out.

Get away from the nagging worries of bills payments. Union Bank can help you to do so.

Just say the word and we'll see to it that your electricity bills, motor vehicle tax, school/college fees, house rent, corporation and panchayat taxes, insurance premiums, Government and other taxes, will all be paid as they fall due. We will also collect interest and dividends on shares and Government securities, if you want.

Get in touch with your neighbourhood Union Bank for further details.

We Help You Help Yourself UB UNION BANK OF INDIA
66/80 Bombay Samachar Street, Fort, Bombay-1.

BLOCK MAKERS

Bombay Art Printers, Near Safed Pul, Kurla-Andheri Rd., Bombay 400072.
Bombay Process Studio, Crescent Chambers, Tamarind Lane, Bombay 400001.
Bharat Studio, 109, Mount Rd., Madras 600018.
Commercial Art Engravers Pvt. Ltd., Sane Guruji Premises, 386, V. Savarkar Marg, Prabhadevi, Bombay 400025.
Dabholkar Bros., 399B, Kalbadevi, Bombay 400002.
Express Block & Engraving Studios Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.
J. B. Motiwala, 38, Mota Mandir Lane, 3rd Bhoiwada, Bombay 400002.
National Blocks, 356, Girgaum Rd., Bombay 400002.
Novelty Process Studio, 17, Kambata Lane, Khetwadi Back Rd., Bombay 400004.
Rapid Process Works, 306, Kalbadevi Rd., Kakad Market, Bombay 400002.
Rexen Free, Process Block Makers, 3, State Bank St., (Opp Midland) Mount Rd., Madras 600002.
Salian Brothers, 161, Bora Bazar St., Bombay 400001.
Sivam Process, 2, T. Sahib St., Mount Rd., Madras 600002.
Solar Process Studio, 22, Apollo St., Bombay 400001.
Sun Process Works, 8, Swadeshi Mills Comp., Tata Rd., Off New Queen's Rd., Bombay 400004.

BUILDING CONTRACTORS

Andhra Pradesh

Allied Construction Co., 6-3-898, Somajiguda, Hyderabad 500001.
Associated Engg. Enterprise, 10, Venkateswara Colony, Narayanaguda, Hyderabad 500001.
Dhirubhai D. Thumar & Co., 256/6, Nehru Nagar, Secunderabad 500026.
Doshi Bros., 3-6-362/3, Street No. 2, Himayatnagar, Hyderabad 500029.
G. Chandriah & Sons, H. No. 3/5, Alwal, Secunderabad 500003.
Hindustan Engg. Syndicate, Kovelamoodiveri St., Vijayawada 520001.
Lachhman Singh & Bros., 3-6-361/6, Himayatnagar, Hyderabad 500029.
Nagabhushanam & Co., Suryarao Peth 2, Vijayawada 520001.
Premier Construction Co., 20, Lalbahadur Stadium, Hyderabad 500001.
S. Ramachandra Reddy & Co., 1-2-303-G, Mahal Rd., Hyderabad 500001.
The Deccan Engg. Co., 145/155, Lakshmi Marepalli, Secunderabad 500003.

Udani Engg. Co. Pvt. Ltd., 1-1-269, Chikadpally, Hyderabad 500001.

Unique Engg. Corpn., 30, Jeera, Secunderabad 500003.

Assam

A. K. Singh, 6, Police Lines, Tezpur 784001.

Bhoj Raj, Railway Colony, Silchar, 788001.

Ghanshyamdas & Co. Rangapara, Darrang Dist.

S. C. Das & Co., D. C. Barucha Rd., Tarajan, Jorhat 785001.

Santnath Construction, Kamar Chubari, Tezpur 784001.

Sunilkumar Gope, Main Rd., Tezpur 784001.

Uttamchand Rupani, D-4, B. K. Das Bldg., Maligaon, Gauhati 781001.

Bihar

G. S. Atwal & Co. (Engg.) Pvt. Ltd., Bokaro Steel City 827011.

Chandigarh

Abecederains, 2202, Sector 21 C, Chandigarh 160017.

B. K. Gujral & Co., 1004, Sector 18 C, Chandigarh 160017.

Chandigarh Construction Co., 204, Sector 9 C., Chandigarh, 160017.

Darshansingh Ahuja, 56, Sector 28 A., Chandigarh 160017.

Des Raj & Sons, 3340, Sector 21 D., Chandigarh 160017.

Kapoor Bros., 528, Sector 10 D., Chandigarh 160017.

Kundan Lal & Sons, 52, Sector 28 A., Chandigarh 160017.

Manchanda Bros., 107, Sector 27 A., Chandigarh 160017.

Orient Trdg. Corpn., 12, Sector 18 A., Chandigarh 160017.

Ranghubir Sing Chatterji Sing, 309, Sector 18 B., Chandigarh 160017.

Sundra & Suri, 213, Sector 21 A., Chandigarh 160017.

United Builders, 11, Sector 9 A., Chandigarh 160017.

Uttam Singh Duggal & Co., 244, Sector 9 C., Chandigarh 160017.

Goa

Lithoferro, Rua de Mercado, Mapuca.

Gujarat

Jagdish Shah & Co., Ashok Niwas, Near Tower, Navsari, 396445.

M. S. Maheswary, Ambika Bhavan, 7, Patel Colony, Jamnagar 361001.

New Construction Co., 27, Embassy Market, Near Dinesh Hall, Navrangpura, Ahmedabad 380009.

N. Kunwerji & Co., Kum Kum, Laxmiwadi, Main Rd., Rajkot 360001.

P. B. Construction Co., 1664, Motithai's Khadki, Mandvi St., Ahmedabad 380001.

Paramount Constructions, opp. Mandvi, Vadodara.

Sayaji Iron & Engg. Co. Pvt. Ltd., Chhani Rd., Vadodara 390002.

Himachal Pradesh

Hira Lall Sud, Dalhousie Cantt. 176304.

Jammu & Kashmir

Bir Arjana Enterprises, 47D. Sector C., Gandhi Nagar, Jammu-Tawi 180001.

Ganesh Das Bhatia, 14, Rajendra Bazar, Jammu 180001.

Maharashtra

A. S. Sethi, Sethi House, Nr. Rly. Bridge, Akola 444001.

Akbaralli Abdul, N. Subash Rd., Akola, 444001.

Amar Constructions, 5/73, Mira Housing Society, Shankersett Rd., Pune 411002.

Amrit Lal Bhavan, Nr. Satsang Bhavan, Akola, 444001.

Amul Construction Co., 279, Old Ravivar Peth, Pune 411002.

Arjunsingh Ramsingh, Malipura, Lakadgunj, Akola 444001.

Arun Construction Co., Sika Nagar, V. Patel Rd., Bombay 400004.

Associated Construction Co., 227-F. Kalbadevi Rd., Bombay 400002.

B. M. Malik, Vasantwadi, Jathar Peth, Akola 444001.

Babulal Nathuram Shah, 75, Navi Peth, Pune 411002.

Bagadia Construction Co., 356, Budhwar Peth, Pune 411002.

Bharat Construction, opp. Mori Rd., Municipal Sch., Mahim, Bombay 400016.

Bhikamchand Tapadia, Behind Cotton Market, Akola, 444001.

Builders Corpn., Mathuradas Rd., Sunder Bagh, Kandivli West, Bombay 400067.

C. M. Patel & Co., 42/B/5, Budhwar Peth, Sholapur 413001.

Chandak Bros., Near Municipal Council, Washim.

D. G. Chaudhari, Godavari Niwas, Ramdas Peth, Akola, 444001.

D. R. Patel & Co., Daulat Wadi, Bhokar Naka, Dhulia 424001.

Daulat Singh Madan & Sons, Panchsheel Housing Society, Yeotmal 445001.

Eapen Verghese & Co., 38, Super Shopping Centre, S. Vivekanand Rd., Andheri, Bombay 400058.

Edal Jal Cassad & Co., 58, Forbes St., Bombay 400001.

Govind Pandurang Apte, 759/63, Deccan Gym. Ganesh Sadan, Prabhat Rd., Pune 411001.

Haribhai Estates Pvt. Ltd., 17, Latif House, Iron Market, Bombay 400009.

Industrial Engineers, 11/13, Botawalla Bldg., Horniman Circle, Bombay 400001.

Indian Prestress Corpn., 101, M. Gandhi Rd., Bombay 400001.

Jagdish Construction Co., 96 B. Irla Bridge, S. Vivekanand Rd., Bombay 400056.

Jai Hind Construction Corpn., 1117, Ali Lakaki Rd., Pune 411002.

Janak Construction Co., 1/29, Navjivan Housing Society, Lamington Rd., Bombay 400008.

Jolly & Maker Pvt. Ltd., Maker Bhavan, New Marine Lines, Bombay 400020.

Jyoti Construction Co., 130/132, A. Rehman St., Bombay 400003.

Khandelwal Builders Pvt. Ltd., Khandelwal House, Linking Rd., off Malad-Marve Rd., Malad West, Bombay 400064.

Kothari Constructions, 458, S. V. Patel Rd., Bombay 400004.

L. T. Construction Co., 439 Kalbadevi Rd., H. Premji Bldg., Bombay 400002.

M. P. Apte, 6, Everest, Peddar Rd., Bombay 400026.

Millars India, Victoria House, Victoria Rd., Bombay 400027.

Parikh Construction Co., Ushakal, 9A, Souther Est., Sangli 416416.

Patel Construction (India) Pvt. Ltd., Hamam House, Hamam St., Bombay 400001.

Popular Construction, 135, Hind-Rajasthan Estate, 95, D. S. Phalke Rd., Bombay 400014.

Project Engineers, 4, Laxmi Niwas, Bajaj Rd., Vile Parle West, Bombay 400058.

Rajesh Construction, Zendi Gate, 1887, Kabir House, A-Nagar, Ahmednager 414001.

Rajnikant & Co., 226/2nd Kumbharwada, Bombay 400004.

Rupchandani Construction Co., Block 699, Nr. Netaji School, Ulhasnagar.

S. N. Shah & Co., 435, Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.

S. Verman Construction, 330, Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.

Shah Builders, 403, S. V. Patel Rd., Camp, Pune 411001.

United Enterprises, 340, Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.

Meghalaya

Stephens Belle & Co., Warjri Lodge, Malki, Shillong 793001.

Mallick Harbanslal & Co., Bends-Side, Rilbaugh, Shillong 793001.

Harcharan Singh & Co., Prof. Swell Rd., Nongthymmai, Shillong 793001.

Mysore

B. N. Veerappa & Sons, 106-111, Cross Gandhi Nagar, Bangalore 560001.

Gounder & Co., I.D.K./56, Hutha Colony, Bhadravati.

Shrinivasan Construction Co., Saroj 400, 1st Block N, Rajajinagar, Bangalore 560010.

Structocrates, 4, 12th Cross Malleswaram, Bangalore 560003.

T. Upendra Kamath, Consulting Engr. & Builder, Mercara, 571201.

Ferro Concrete Co. of India, Behind I.O.C. Petrol Pump, Saundatti, 590001.

New Delhi

Dawan Chand Builders Pvt. Ltd., 33 B, Pusa Rd., New Delhi 110012.

Charanji & Co., 77, Krishna Nagar, New Delhi 110051.

Gian Singh Sukdev Singh, 42 K, Connaught Place, opp. Plaza, New Delhi 110001.

Vira Construction Co., 103, Jor Bagh, New Delhi 110003.

Malkit Singh & Bros., 3-12/56, Rajori Garden, New Delhi 110027.

Krishan Lal Khattar, 33, New Market, West Patel Nagar, New Delhi 110008.

Orissa

A. S. Sandhu & Co., Kachery Rd., Rourkela.

Calcutta Co. Ltd., P. O. Tapeng Quarry, Narangarh, 752001.

Shaligram Modi & Co., Modi Nivas, Rourkela.

Punjab

Mittal & Co., 13, Sadar Bazar, Jullundur Cantt. 144005.

Meher Singh & Sons, P. O. Khalsa College, Amritsar 143001.

Rajindranath Chopra, 55, Katra Sher Singh, Amritsar 143001.

“ Better, Quicker and more Economical Housing ”

M/s. B. G. Shirke & Company

Structural Engineers and Builders of 28 years standing

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- Our own Self-sufficient complex for manufacture of building components and equipments from A to Z.
- Visit our Housing in Poona, where full economies and benefits of industrialised housing are achieved and proved.
- Housing consultations, Economical Design Package Deals and Execution Package Deals.
- Quality with Speed and Economy.

Residence :
B. G. Shirke, B.E., F.I.E.,
1205, Apte Road, Poona-4
(Phone : 56712)

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Office & Factories :
72-76, Mundhwa Industrial
Estate, Mundhwa, Poona-1.
(Phone Nos. 7151 and 7152)

Rajasthan

Dharampal & Co., MES Contractors, Scheme No. 2, Bungalow 406, Alwar 301001.

Gadhoke Construction Co., 4, Manu Marg, Alwar 301001.

Khelaram Raghunath Ram & Co., Shri Rd., Jodhpur 342001.

Moti Construction Co., Moti Bhavan, Neeti Marg, Ajmer 305001.

Uberoi & Associates, Jaipur 302001.

Chopra Ranka & Associates, 429/3, Raja Park, Jaipur 302001.

Uttar Pradesh

All India Construction Co., 123, North Vijayanagar Colony, Agra 282001.

Bhatia Bros., 124 B/1, Bhatia Bhavan, Govind Nagar, Kanpur 208001.

Chandrika Prasad & Sons, 111, Sadar Bazar, Allahabad 211001.

Chirnani Builders, 18, Lukargunj, Allahabad 211001.

D. S. Enterprises, Yadav Bhavan, Arya Nagar, Lucknow 226001.

G. S. Mago & Sons, Ajit Nagar, Agra 282001.

Husain & Sons, 1, Wanis Manzil, Idgah, Allahabad 211001.

Inder Nath & Co., Hing Ki Mandi Crossing, Agra 282001.

Ishwar Ind., Bombay Bazar, Meerut 250001.

Jagdish & Co., 8/11, Arya Nagar, Kanpur 208001.

Jain Bros., Mitra Bhavan, Prempuri, Meerut 250001.

Jenson & Nicholson (I) Ltd., Shyam Sunder Bldgs., The Mall, Kanpur 208001.

Kailash & Co., 11, Baikabagh, Allahabad 211001.

Kobjan Singh & Sons, Chili-Int Chatia, Agra 282001.

M. K. Potdar & Co., 19A Taj Rd., Agra 282001.

Munna Lal & Sons, 1, Gariwan Tola, Allahabad 211001.

Pahuja Builders, 112 A. Lukergunj, Allahabad 211001.

Radhey Shiam & Co., Lala Ka Bazar, Meerut City 250001.

Ramji Das Dhal & Sons, 2/10, Malviya Kunj, Agra 282001.

Roshan Lal & Co., 332, Attarsuya Rd., Allahabad 211001.

Shankerlal & Sons, Quila Rd., Chippa Tola, Agra 282001.

Sheri Bros., D-95, Railway Colony, Agra Cantt. 282001.

Singal & Associates, C-60 Bardwaj Palli, J. Bahadur Rd., Allahabad 211001.

Som Construction Co., 44, Johnstongunj, Allahabad 211001.

Tirath Singh & Co., Idgyah Colony, Agra Cantt. 282001.

V. Mohan & Co., 113/119, Ashok Balika, Swaroop Nagar, Kanpur 208001.

Vijay Construction Co., 127, Anandpuri, Meerut City 250001.

Tamil Nadu

Albis Engg. Co., 6, S. Mohammed Rd., Madras 600006.

Asian Engg. Co., 12, B. McNichollas Rd., Madras 600010.

B. Sundararaman & Co., 3rd Cross St., East Shenoy Nagar, Madras 600030.

City Builders, 19, Kanan St., Madras.

City Bldg. Syndicate Pvt. Ltd., 24, Kalakshetra Colony, Madras 600020.

E. I. D. Parry Ltd., Dara House, Box No. 12, Madras 600001.

East Coast Construction & Industrial, 1, Moores Rd., Madras 600006.

Engineering and Commercial Agencies, 4, Smith Rd., Madras 600002.

Engineering Enterprises, 4, Ganesh St., Madras 600006.

Essar Construction & Carriers Ltd., 306, T. Chetty St., Madras 600001.

G. & P. Construction Co., 39, Sullivan Garden Rd., Madras.

Ganpathy & Co., 175/1, Mount Rd., Madras 600002.

Gladston Lyall & Co., Ltd., Connemara Hotel Annexe, Madras 600002.

Jey Constructions, 46, Chamiers Rd., Madras 600002.

K. G. Lakshmipathi & Co., 6/24, Harrington Rd., Chetput, Madras 600031.

K. Ramani & Co., 40, Bajanai Kali St., Kodambakkam, Madras 600024.

K. Rungaswamy Naidu & Sons, P. O. Shri Ramakrishna Vidyalaya, Coimbatore Dist.

K. S. Venkatraman & Co. Pvt. Ltd., 5, Dr. Thomas Rd., T. Nagar, Madras 600017.

L.S.R. Constructions, 63, B. Kamdar Nagar, Madras.

Mahalakshmi Constructions, 25, E. Elliot Rd., Mylapore, Madras 600004.

M. Arunachalam & Co., 34, Lloyds Rd., Royapetah, Madras 600014.

Premier Engg. Co. Pvt. Ltd., 24, Kalakshetra Colony, Madras 600020.

Raghavan Veera & Sons, 7A, Bishop Vallers Ave., Mylapore, Madras 600004.

Raman Bros., 11, Vidyodaya, 1st Cross Rd., T. Nagar, Madras 600017.

Sanjaya Constructions, 10, First Cross Rd., Raja Annamalaipuram, Madras 600028.

Seetharam & Co., 42, North Mada St., Mylapore, Madras 600004.

Senthill Constructions, 8/1, Maharaj S. Rao Rd., Madras.

Simplex Concrete Piles (I) Pvt. Ltd., 17 C. Major Rd., Egmore, Madras 600008.

South India Structural Corpn. Ltd., 1050, Thiruvothiyur High Rd., Madras 600019.

Southern Engg. & Construction Co., 15, Westcott Rd., Madras 600014.

Srinivasa Construction Co., 19, B. Sriramanagar, North St., Madras.

The Eimco-K.C.P. Ltd., Ramakrishna Bldg., 38, Mount Rd., Madras 600002.

Vairavan Constructions, 6-8th Trust Cross Rd., Madras 600028.

Wilson & Co. Pvt. Ltd., Chordia Mansions, 105A/2, Mount Rd., Madras 600002.

CONTRACTORS FOR GUNITE, GROUTING & COLLOIDAL CONCRETE

Cementation Co. Ltd., Steelcrete House, D. Vacha Rd., Bombay 400020.

Cementation Patel, 3, Esplanade East, Calcutta 700001.

Consolidated Peneumatic Tools Co. Ltd., 30, J. Nehru Rd., Calcutta 700016.

Gannon Dunkerley & Co. (Madras) Ltd., R. S. 1292, Cathedral Rd., Madras 600006.

Heatly & Gresham (India) Ltd., 31, Chittaranjan Ave., Calcutta 700013.

Hindustan Construction Co. Ltd., 9, Syed A. Ali Ave., Calcutta 700017.

John Fleming & Co. Pvt. Ltd., 21, Bastion Rd., Bombay 400001.

Modern Construction Engineers, 12, B. K. Paul Ave., Calcutta 700005.

Mukherjee Bros., 1B, N. Mitra Row, Calcutta 700002.
Pandit Brothers, 30, Gandhi Rd., Calcutta 700009.
Patel Engg. Co. Ltd., 3, Esplanade East, Calcutta 700001.
Shah Construction Co. Ltd., 198, Churchgate Recl., J. Tata Rd., Bombay 400020.
Shah & Pandya, 24-B, Hamam St., Bombay 400001.
Shib Banerjee Construction Pvt. Ltd., 20, Gariahat Rd., Calcutta 700019.
Vulcan Trdg Co. Pvt. Ltd., 19C, British India St., Calcutta 700001.

PILING CONTRACTORS

Akbarali Abdulali & Sons, N. Subash Rd., Akola 444001.
Braithwaite, Burn & Jessop, Construction Co. Ltd., 27, R. N. Mukherjee Rd., Calcutta 700001.
Brooklyn Piling & Construction Co., 111, Turner Rd., Bandra, Bombay 400050.
Central Engg. Syndicate, 32, G. Chandra Ave., Calcutta 700013.
Cementation Co. Ltd., 5, Chowringhee Approach, Calcutta 700013.
Cementation Patel, 3, Esplanade East, Calcutta 700001.
Coromandel Engg. Co., 5/52, Jehangir St., Madras 600001.
Foundation Corpn. of India, Meher House, 15, C. Patel St., Bombay 400001.
Gammon India Ltd., 19, Sarsuna Main Rd., Calcutta 700061.
Hindustan Construction Co. Ltd., Construction House, Ballard Estate, Bombay 400001.
K. N. Dadina, P-826, Block P, New Alipore, Calcutta 700053.
McKenzies Ltd., 30, Chittaranjan Ave., Calcutta 700012.
Patel Engg. Co. Ltd., 3, Esplanade East, Calcutta 700001.
Pressure Piling Co. (India) Pvt. Ltd., Savoy Chambers, Wallace St., Bombay 400001.
Radio Foundation Engg. Ltd., & Hazarat & Co., 254-D, Dr. Besant Rd., Bandbox House, Bombay 400025.
Sewri Engg. Construction Co. Pvt. Ltd., Savoy Chambers, Wallace St., Bombay 400001.
Simplex Concrete Piles (India) Pvt. Ltd., Simplex House, P-1, Transport Depot Rd., Calcutta 700027.

PRESTRESSED CONCRETE SPECIALISTS

B. K. Banerjee & Associates, 14-A, N. Banerjee Rd., Calcutta 700013.
Bandel Builders Pvt. Ltd., 4, Mission Row, Calcutta 700001.
Bansal Brothers (India), 26/1, Strand Rd., Calcutta 700001.
Bhagwati & Kumbhani, 703, Yashkamal, Opp. Commerce College, Vadodara 390005.
Bharucha & Motiwala, 14, Boat Club Rd., Pune 411001.
Bhasin Construction Co. Pvt. Ltd., Blessington House, Kanke Rd., Ranchi 834001.
Bihar Prestressing Pvt. Ltd., 6, Beatson Rd., Bhagalpur 812001.
Bridge & Bldg. Construction Co. Pvt. Ltd., 90-A, S. P. Mukherjee Rd., Calcutta 700026.
Bridge & Bldg. Corporation Pvt. Ltd., G.S. Rd., Ulubari, Gauhati 781001.
C. M. Jain, Sonawala Bldg., 59, Apollo St., Bombay 400001.
Chanda Engineers (India) Ltd., 21, Princep St., Calcutta 700013.
Chatterjee & Polk, Narayani Bldgs., 27, Brabourne Rd., Calcutta 700001.
Civcon, 10, Chowringhee Mansion, 30, J. Nehru Rd., Calcutta 700016.
Civil and Mining Engg. Consultants Pvt. Ltd., 20, Rajmahal, V. Nariman Rd., Bombay 400020.
Consultant Group, 11, Old Post Office St., Calcutta 700001.
D. K. Banerjee, 91, Golf Club Rd., Calcutta 700013.
G. V. K. Murthy, 32, S. Mudali St., Madras 600007.
Gammon India Ltd., Gammon House, V. Savarkar Marg, Prabhadevi, Bombay 400025.
Gannon Dunkerley & Co. (Madras) Pvt. Ltd., R. S. 1292, Cathedral Rd., Madras 600006.
Ghose, Bose & Associates, 6, Harrington St., Calcutta 700016.
Hind Constructions & Engg. Co. Ltd., 9, Brabourne Rd., Calcutta 700001.
Hindustan Concrete & Allied Ind., Krishna Chowk, Station Rd., Patna 800001.
Hindustan Construction Co. Ltd., Construction House, Ballard Estate, Bombay 400001.
Hindustan Housing Factory Ltd., Jangpura, New Delhi 110014.
Hindustan Spun Pipes Ltd., Narayani Bldgs., 27, Brabourne Rd., Calcutta 700001.
Indian Prestress Corpn., 101, M. Gandhi Rd., Bombay 400001.
Indo-Swiss Corpn., 14, Sankey Rd., Bangalore 560001.
J. C. Patel, Near Mahadevia Kuwa New Houses, Karamsad, via Anand 388001.
J. G. Bodhe, 24-26, Dalal St., Bombay 400001.
Jal N. Bharucha, Khalakdina Terrace 'B', Gowalia Tank Rd., Bombay 400026
K. R. Irani & Co., 24-26, Dalal St., Bombay 400001.
Karl Malte Von Keinz, 32, Alipore Rd., Delhi 110006.
Kayjay Engineers, 123, M. Gandhi Rd., Bombay 400001.
Khare Gore & Associates, 52-78, W.E.A., Delhi 110005.
Killick Nixon Ltd., 31, Murzban Rd., Bombay 400001.
Kuljian Corpn. (India) Pvt. Ltd., 24-B, Park St., Calcutta 700016.
M. A. Botee, Anis Chambers, Carnac Rd., Bombay 400001.
M. M. Bilaney & Co., 140, Medows St., Bombay 400001.
Maitra & Varyani, E. 70, N.D.S.E., Part I, New Delhi 110003.
Manibhai & Brothers, 61, Krishna Housing Society, Anand 388001.
N. T. Patel & Co., Catholic Centre, 6, Armenian St., Madras 600001.
Orissa Cement Ltd., 4, Dalhousie Square East, Calcutta 700001.
Orissa Concrete Products Ltd., Bhubaneswar Rd., Bhubaneswar 751001.
Orissa Construction Corpn. Ltd., Gopabandhu Nagar, Unit III, Bhubaneswar 751001.
P. K. Sanyal, 13-C, Deodar St., Calcutta 700019.
P. R. Rao, 16-1-5, Coastal Battery Rd., Maharanipeta, Visakhapatnam 530002.
Patel Engg. Co. Ltd., Jogeshwari Estate, S. Vivekanand Rd., Jogeshwari, Bombay 400060.
Prestressed Concrete Co. (South India) Pvt. Ltd., 80, Lloyds Rd., Madras 600014.
Prestressing Corpn. of India, Vishwa 52, Sion West, Bombay 400022.

Rajasthan Marble & Tiles, 110/10, Nehru Nagar, 80H Rd., Kanpur 208001.

S. B. Joshi & Co., Examiner Press Bldg., 35, Dalal St., Bombay 400001.

S. P. Banerjee, 6/1, Lindsay St., Calcutta 700016.

Sewri Engg. Construction Co. Pvt. Ltd., Savoy Chambers, Wallace St., Bombay 400001.

Shah Construction Co. Ltd., 198, Churchgate Reclmn., J. Tata Rd., Bombay 400020.

Shalimar Tar Products (1935) Ltd., 6, Lyons Range, Calcutta 700001.

Shib Banerjee Properties & Construction Pvt. Ltd., 20, Gariahat Rd., Calcutta 700019.

Simplex Concrete Piles (India) Pvt. Ltd., Simplex House, P-1, Transport Depot Rd., Calcutta 700027.

Shroff & Tembe, 30-31, Yusuf Bldg., 51, V. Nariman Rd., Bombay 400001.

Stresscon Engg. Co. Pvt. Ltd., 13-C, Deodar St., Calcutta 700019.

Structures Pvt. Ltd., 168, Bidhan Sarani, Calcutta 700006.

Stup (India) Ltd., Adelphi, 119, M. Karve Rd., Bombay 400020.

T. K. Roy & Partners, 31, Chittaranjan Ave., Calcutta 700012.

Tirath Ram Ahuja Pvt. Ltd., 16, Fire Brigade Lane, New Delhi.

V. B. Deshpande & Associates, 462/2, Sadashiv Peth, Tilak Rd., Pune 411002.

Vakil-Mehta-Parikh-Sheth, 230, Commerce House, 140, Medows St., Bombay 400001.

SHELL ROOF SPECIALISTS

A. K. De, 33, Brabourne Rd., Calcutta 700001.

A. N. Suryavanshi, Laxmipuri, Kolhapur 416001.

Ajit Ram Jain, Jain Bhawan, Gowshalla, Sindri 826001 (Dhanbad).

Amar Nath Charanji Lal, Sunlight Bldg., A. Ali Rd., New Delhi 110001.

Andhra Civil Construction Co., Uppal, Hyderabad 500009.

Architects Incorporated, 3-Court Lane, Court Rd., Civil Lines, Delhi 110006.

Argon Engineers, 7, Kamal Mansion, Arthur Bunder Rd., Colaba, Bombay 400005.

B. K. Banerjee & Associates, 14-A, Surendra Nath Banerjee Rd., Calcutta 700013.

B. K. Dhar Pvt. Ltd., 6, K. S. Roy Rd., Calcutta 700001.

Bandel Builders Pvt. Ltd., 4, Mission Rd., Calcutta 700001.

Bhagwati & Kumbhani, 73, Yashamal, Opp. Commerce College, Vadodara 390005.

Bhai Engg. Pvt. Ltd., 4/23-B, A. Ali Rd., New Delhi 110001.

Bharat Builders, Dhun Bldg., 23/25, Gogha St., Bombay 400001.

Bhasin Construction Co. Ltd., Blessington House, Kanke Rd., Ranchi 834001.

Builders' Associates, 361, Dr. D. Naoroji Rd., Bombay 400001.

C. M. Jain, 18, Union Bank Bldg., Apollo St. Bombay 400001.

Chatterjee & Polk, Narayani Bldgs., 27, Brabourne Rd., Calcutta 700001.

Civcon, 10, Chowringhee Mansion, 30, J. Nehru Rd., Calcutta 700016.

Consultant Group, 11, Old Post Office St., Calcutta 700001.

Designer's Pvt. Ltd., 91-A, Walkeshwar Rd., Bombay 400006.

Dilipkumar Nagindas Shah, 10, Bhaveshwar Niketan, Gowalia Tank, Bombay 400026.

Engineers Consortium, 54/1/3, Hazra Rd., Calcutta 700019.

Engineering Consultants (India), Bharat Bhavan, 91-E, Walkeshwar Rd., Bombay 400006.

G. B. Kanuga, R-167, Greater Kailash No. 1, New Delhi 110048.

G. R. Dighe & Associates, 1424, Laxmipuri, Kolhapur 416001.

G. V. K. Murthy, 32, S. Mudali St., Madras 600007.

Gammon India Ltd., Gammon House, V. Savarkar Marg, Prabhadevi, Bombay 400025.

Gannon Dunkerley & Co. Ltd., Chartered Bank Bldg., M. Gandhi Rd., Bombay 400001.

Ghosh, Bose & Associates, 6, Harrington St., Calcutta 700016.

Harbir S. Bakshi, 5-207, Greater Kailash, New Delhi 110048.

Hind Builders, P. Box No. 77, Tulsipur, Cuttack 753001.

Hindustan Construction Co. Ltd., 9, S. A. Ali Ave., Calcutta 700017.

Indo-Swiss Corpn., 14, Sankey Rd., Bangalore 560001.

J. G. Bodhe, 24-26, Dalal St., Bombay 400001.

Jagdish Rai & Co., 112/214, Swarup Nagar, Kanpur 208001.

Jal N. Bharucha, Khalakdina Terrace 'B', Gowalia Tank Rd., Bombay 400026.

Jamshed P. Dastur, 12, 'Ararat' Bldg., 89, N. Master Rd., Bombay 400001.

Jolly Brothers Pvt. Ltd., Laxmi Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.

K. A. Patel, J-13, Jangpura Ext., New Delhi 110014.

K. R. Irani & Co., 24-26, Dalal St., Bombay 400001.

K. S. Venkataraman & Co. Pvt. Ltd., Dr. Thomas Rd., Madras 600017.

Kesari Janardan Mhatre, 6, Stock Exchange Bldg., Apollo St., Bombay 400001.

Khare Gore & Associates, 52/78, W.E.A., Delhi 110005.

M. M. Bilaney & Co., 14, Medows St., Bombay 400001.

Maitra & Varyani, E-79, N.D.S.E. Part I, New Delhi 110003.

N. K. Agarwal & Associates, 15/88, Civil Lines, Kanpur 208001.

N. T. Patel & Co., Catholic Centre, 6, Armenian St., Madras 600001.

National Construction Corpn., 10-A, Harrington St., Calcutta 700016.

Prasad & Co., 848, 'P' Block, New Alipore, Calcutta 700053.

Prestressed Concrete & Shell Roofs P. Ltd., 1-A, Harrington St., Calcutta 700016.

S. P. Banerjee, 6/1, Lindsay St., Calcutta 700016.

Shah Construction Co. Ltd., 198, Churchgate Recl., J. N. Tata Rd., Bombay 400002.

Shroff & Tembe, 3-31, Yusuf Bldg., 51, V. Nariman Rd., Bombay 400001.

Stup (India) Ltd., 'Adelphi', 119, M. Karve Rd., Bombay 400020.

Tarapore & Co., 175/1, Mount Rd., Madras 600002.

Teja Singh & Associates, F65, Bhagat Singh Marg, New Delhi 110001.

Tirath Ram Ahuja Pvt. Ltd., 16, Fire Brigade Lane, New Delhi.

Udani Engg. Co., 1-8-27/19, Chikkadpally, Hyderabad 500020.

Vakil-Mehta-Parikh-Sheth, Khamasa Gate, Ahmedabad 380001.

CHARTERED ACCOUNTANTS

BOMBAY (Maharashtra)

Abhyankar (B. C.) & Co., 67, Alli Chambers, N. Master Rd., Fort 400001.

Achhipalia (R. H.) & Co., 57, Stock Exchange New Bldg., Apollo St., Fort, 400001.

Adamji P. Peerbhoy & Co., Dada Manzil, 67-69, Mahomedali Rd., 400003.

Adenwalla (N. D.) & Co., 418, Chhotalal Bhuwan, Kalbadevi Rd., 400002.

Adi B. Rabadi & Co., 660, Parsi Colony, Dadar, 400014.

Advani (M. T.) & Co., Jasville Bldg., 9, New Marine Lines, 400020.

Advani (R. H.) & Co., 21, Framroz Court, Marine Drive 400020.

Agarwal & Rao, Crescent Chambers, Tamarind St., 400001.

Agarwal (C. L.) & Co., 17/4, "Sindhu", 87, Marine Drive, 400002.

Agarwal (R. N.) & Co., 288, Kalbadevi Rd., 400002.

Agashiwala (D. J.) & Co., Prabha Sadan, 6th Rd., Santa-Cruz (East), 400055.

Agashiwala (M. J.) & Co., Prabha Sadan, 6th Road, Santa Cruz (East), 400055.

Agrawal (A. M.) & Co., Darya Bldg., 375, Dr. D. Naoroji Rd., 400001.

Agrawal (D. K.) & Co., "Vishwashanti," Prabhat Colony Rd., Santa Cruz (East), 400055.

Agrawal (G. T.) & Co., 325, Kalbadevi Rd., 400002.

Agrawal (M. B.) & Co., 508, Churchgate Chambers, 5, New Marine Lines, 400020,

Agrawal (M. R.) & Co., Himalaya House, Worli Sea Face, 400018.

Agrawal (R. P.) & Co., 19, Sanjani Bldg., 2nd Agyar Lane, 400003.

Agrawal (R. S.) & Co., 40, Poddar Chambers, Parsi Bazar St., Fort, 400001.

Agrawal (S. M.) & Co., 2, Shanti Nagar, Sardar V. P. Rd., Borivli (West), 400092.

Ahmed B. Khan & Co., 67-69, Dada Manzil, Mahomedali Rd., 400003.

Ahmed N. Lilani & Co., Topiwala Mansion, 93, Mohamedali Rd., 400003.

Ailawadi (R. D.) & Co., 8, Jeevan Udhyog, 278, Dr. D. Naoroji Rd., Fort, 400001.

Aiyar (K. S.) & Co., East & West Bldg., 49, Apollo St., Fort, 400001.

Ajgaonkar (C. S.) & Co., Manekjee Wadia Bldg., Bell Lane, 127, M. Gandhi Rd., Fort, 400001.

Ajit V. Thakur & Co., 1297/D-67, Azadnagar, Andheri (West), 400058.

Ajmera (K. N.) & Co., Jaihind Estate No. 2, Bhuleshwar, 400002.

Alai & Phadke, Bombay Mutual Chambers, 19/21, A. Dosi Rd., 400001.

Allbless (R. B.) & Co., 14, Western India House, Sir P. Mehta Rd., Fort, 400001.

Almeida (M. V.) & Co., Prasanna, Nesbit Rd., Mazagaon, 400010.

Ambalal Thakkar & Co., East and West Bldg., 49, Apollo St., Fort, 400001.

Ambekar (S. V.) & Co., G-106, Lokmanyanagar, 400016.

Amin (N. H.) & Co., Ranvir Bldg., 64, Princess St., 400002.

Amritlal Tated & Co., 47, Dagina Bazar, 400002.

Anand K. Agrawal & Co., 8/228, Parekh Bldg., Sion (East), 400022.

Anand S. Sandu & Co., "Anand", Sanduwadi, 7th Rd., Chembur, 400071.

Anandwala (D. M.) & Co., 60, Sutar Chawl, 400002.

Andhyarujina & Co., Contractor Bldg., Kashinath St., Tardeo, 400034.

Anil A. Trivedi & Co., 122-A, Thakurdwar Rd., Dutta Mandir, 400002.

Anil Doshi & Co., 'Vijay', Block No. 71, Vallabhbaug Lane, Ghatkopar, 400077.

Anil J. Shah & Co., 11, Zalawad Nagar, Juhu Lane, S. Vivekanand Rd., Andheri (West), 400058.

Anil M. Parikh & Co., "Arart", 89, Medows St., 400001.

Anil M. Shah & Co., 4, Shreenath Krupa, 7th Rd., Rajawadi, Ghatkopar (East), 400077.

Anil Nagandhi & Co., 'Shreenath Krupa', 7th Rd., Rajawadi, Ghatkopar, 400077.

Anil Naik & Co., Shanti Bhuvan, Chapel Lane, Santa Cruz (West), 400054.

Anil P. Jani & Co., 115, V. Patel Rd., Dani House No. 1, 400004.

Apaji Amin & Co., 14, Hanuman St., Fort, 400001.

Arasa, Arala & Co., 5, K. K. Mansion, 289, Nagdevi St., 400003.

Argade Shyam & Co., Crescent Chambers, Tamarind Lane, Fort, 400001.

Arun Fadia & Co., Cavel Cross Lane No. 4, Kalbadevi Rd., 400002.

Arun Mehta & Co., 17, Orion, Oomer Park, B. Desai Rd., 400026.

Arvind & Co., 2-Union Co-op. Insurance Bldg., 23, Sir P. Mehta Rd., Fort, 400001.

Arvind & Narendra, Bombay Mutual Chambers, 19-12, Hamam St., Fort, 400001.

Arvind Raman & Co., 32, Agiari Lane, Bazargate St., Fort, 400001.

Arvind Shah & Co., D-Wing, Manish, S. V. Patel Rd., Borivli (West), 400092.

Arvind Sheth & Co., Amar Wadi, Khattargali, 400004.

Ashar (P. R.) & Co., 29/30, Bhagubhai Chambers, Narshi Nath St., Katha Bazar, 400009.

Ashok & Bipin, Kikabhai Mansion, Kika St., 400004.

Ashok Rao & Co., Crescent Chambers, Tamarind St., Fort, 400001.

Athavale (P. P.) & Co., Behind A. B. Goregaonkar, English School, Aarey Rd., Goregaon (West), 400062.

Atul H. Mehta & Co., Prabha Kunj, V. Patel Rd., Andheri (West), 400058.

Attari (S. T.) & Co., 38, Dalamia Lane, Mahim, 400016.

Awasthi (R. K.) & Co., Plot No. 4, Government Ind. Estate, Kandivli (West), 400067.

Ayaz (A. G.) & Co., 317, Jolly Bhuwan No. 1, 10, New Marine Lines, 400020.

B. A. & Co., 9895, Gandhi Marg, 400002.

Babu U. Chokshi & Co., Navsari Bldg., 240, Dr. D. Naoroji Rd., Fort, 400001.

Babubhai A. Parikh & Co., Dhanukar Bldg., 480, Kalbadevi Rd., 400001.

Babulal Diyora & Co., 13, Alankar, 208, Samuel St., 400003.

Badhniwalla (J. F.) & Co., 20, Hamam St., Fort, 400001.

Bafna (B. K.) & Co., 141, Princess St., 400002.

Bafna (F. G.) & Co., Y.M.C.A., 412, Lamington Rd., 400004.

Bagadia (P. D.) & Co., Chetan Bldg., Pant Nagar, Ghatkopar (East), 400077.

Bagadiya & Co., 22, Lucky Mansion, 71, Mohamadali Rd., 400003.

Bagathey (V.P.) & Co., "Edena", 97, Queen's Rd., 400001.

Bahri (V. K.) & Co., 37/A, Usha Sadan, Near Colaba P.O., 400005.

Baikar & Co., 102/3521, Nehru Nagar, Kurla (East), 400024.

Bajaj, Rege, Patel, C-1, Jeevan Jyoti, 18/20, C. Patel St., 400001.

Bakhai (J. H.) & Co., Kalan Nagar Co-op. Society, 271/293, N. C. Kelkar Rd., Dadar, 400014.

Bakiwala (K. K.) & Co., C/o Bank of Baroda, 10/12, Apollo St., Fort, 400001.

Baldia (K. T.) & Co., Chandra Bhuvan, 46, Old Hanuman Lane, 400002.

Balsekar & Desai, Noble Chambers, Parsee Bazar St., Fort, 400001.

Balubhai P. Bhatt & Co., Shri Krishna Nivas, New Silk Market, Kalbadevi Rd., Bombay 400002.

Bandi (C. H.) & Co., 2, Horizon View, 138, Gen. J. N. R. Bhosle Marg, 400001.

Banerjee & Co., Mustafa Bldg., Sir P. Mehta Rd., 400001.

Bansal & Associates, 23, Bank of Baroda Bldg., Mahatma Phule Market, Palton Rd., 400001.

Bansi S. Mehta & Co., Merchant Chambers, 4, New Marine Lines (Opp. Patkar Hall), 400020.

Bastawala (V. M.) & Co., 'Deepak', 6th Rd., Santa Cruz (East), 400055.

Basu (G.) & Co., 36, Tamarind Lane, Tamarind House, Fort, 400001.

Batliboi & Purohit, National Insurance Bldg., 204, Dr. D. Naoroji Rd., Fort, 400001.

Batliboi (S. R.) & Co., Mherwan Bldg., 23, Sir P. Mehta Rd., Fort, 400001.

Batliwalla (S. N.) & Co., 530, Shankerseth Rd., Opp. Chira Bazar, 400002.

Batra (V.) & Co., 20, "Poonam B", 48, Lallubhai Park Rd., Andheri, 400058.

Battivala & Co., 666, Orient House, Parsi Colony, Dadar, 400014.

Baxi (P. R.) & Co., Samantwadi, Behind Parle College, Dixit Rd., Vile Parle, 400057.

Behramkamdin (E. P.) & Co., Alblen Bldg., Thakurdwar, 400002.

Beri (L. C.) & Co., Krishna Udyog Bhawan, 15, Nariman Rd. (Near Bengal Chemicals), Prabhadevi, 400025.

Beswala (S. K.) & Co., 107, Tambakanta, 400003.

Bhagat & Bathia, Matrukrupa, Main Ave. Rd., Santa Cruz (West), 400054.

Bhagat (Y. N.) & Co., Ramkrupa, Main Ave. Rd., Santa Cruz (West), 400054.

Bhagwat (P. G.), Jiji House, 17, Raveline St., Fort, 400001.

Bhaidas M. Mehta & Co., Karim Chambers, 42, Hanuman St., Fort, 400001.

Bhalja & Bhalja, Moti Mahal, 43, Dhanji St., 400003.

Bhamla (A. O.) & Co., 283A, A. Rehman St., 400003.

Bhana & Co., 517, Churchgate Chambers, 5, New Marine Lines, 400020.

Bhandari & Associates, 134/1, Modi St., Fort, 400001.

Bhandari & Co., Hazi Mansion, 5th Rd., Khar, 400052.

Bhandari (B. R.) & Co., Parker Bldg. No. 6, 14/18, Cawasji Patel St., Fort, 400001.

Bhandari (M. C.) & Co., 508, Churchgate Chambers, New Marine Lines, 400020.

Bhandari (M. G.) & Co., Ram Niwas Chawl, Goregaon (West), 400062.

Bhandari (S. K.) & Co., The Indian Smelting Refining Co., Ltd., L. B. Shastri Marg, Bhandup, 400078.

Bhandari (S. S.) & Co., 5/13, Malad Co-Op. Housing Society Ltd., Poddar Baug, Malad, 400064.

Bhangle (V. M.) & Co., D-81/813, M.I.G. Colony, Gandhinagar, Bandra (East), 400051.

Bhansali (R. N.) & Co., Botawala Bldg., 7-10, Horniman Circle, Fort, 400001.

Bhanwar Lal & Co., 97, Nagdevi St., 400003.

Bharat & Co., 49-55, Apollo St., 400001.

Bharat Morzaria & Co., 214-16, Dr. C. Hormusji St., Dhobi Talao, 400002.

Bharat Vashi & Co., 4, Broadway House, King's Circle, 400019.

Bhargav (S. J.) & Co., 9-G, Ismail Bldg., Flora Fountain, 400001.

Bharucha & "Examiner Press Bldg.", 109, Medows St., Fort, 400001.

Bharucha (P. B.) & Co., Mansion, Tardeo Rd., Opp. Bolton Litho Works, 400007.

Bharucha (P. E.) & Co., A-3, Dalal Estate, Lamington Rd., 400008.

Bharucha (P. S.) & Co., 504, Churchgate Chambers, 5, New Marine Lines, 400020.

Bharucha (R. S.) & Co., Jehangir Mansion, 1st Marine St., Fort, 400001.

Bharwani & Co., 'Himgiri,' Peddar Rd., 400026.

Bhat (N. K.) & Co., 15/4, Abubaker Mansion, Colaba Causeway, 400001.

Bhate (C. R.) & Co., Rasik-Kunj, Mathurdas Rd., Kandivli, 400067.

Bhatia & Jhunjhunwala, Crescent Chambers, Tamarind St., Fort, 400001.

Bhatia (H. R.) & Co., 14, Ashok Vihar, Plot No. 90, Chembur, 400071.

Bhatia Mittal & Associates, Radhabai Niwas, 268, C. S. T. Rd., Kurla, 400070.

Bhatia (P. L.) & Co., Khanderao Wadi, Dadi Sheth Agiary Lane, 400002.

Bhatia (V. K.) & Co., 113-B, Churchgate Chambers, New Marine Lines, 400020.

Bhatt & Parikh, Yusuf Bldg., 43, M. Gandhi Rd., Flora Fountain, Fort, 400001.

Bhatt (M. J.) & Co., Churchgate Chambers, New Marine Lines, 400020.

Bhatt (M. M.) & Co., New Bldg., 16E, Dr. M. B. Verlka St., New Bhatia Mahajan Wadi, Kalbadevi Rd., 400002.

Bhatt (N. S.) & Co., 32, Apollo St., Fort, 400001.

Bhave (B. H.) & Co., 21, Radha Bldg., Shastri Hall, Tardeo, 400007.

Bhide (M. V.) & Co., 'Krishna Niwas', Tulsi Pipe Rd., Matunga, 400016.

Bhimjiani & Co., 116, N. Dhuru St., 400003.

Bhogilal Chimanlal Shah & Co., Chhotalal Bhuvan, 418, Kalbadevi Rd., 400002.

Bhootpakar (P. R.) & Co., Court View, 126, Churchgate Recl., Queens Rd., 400001.

Bhoor Chand Shah & Co., 15, Prem Niwas, Dr. Ambedkar Rd., Khar, 400052.

Bhupendra & Co., B-9, Guru Nanak Bldg., Behind State Bank of India, Ghatkopar, 400086.

Bhupendra K. Shah & Co., Vijay Niwas, Jivdaya Lane, Agra Rd., Ghatkopar, 400086.

Bhupendra Shah & Co., 15-16, Shiv Mahal, Sion Main Road, Sion (East), 400022.

Bhutada (B. R.) & Co., 24, Sri Niketan, A. C. H. Society, Andheri West, 400058.

Bhuwania (M. L.) & Co., Agakhan Bldg., 9, Dalal St., Fort, 400001.

Bhuwania (V. N.) & Co., 54, Marwari Bazar, 400004.

Billimoria (J. H.) & Co., 203, Soona Mahal, Marine Drive, N. Subash Rd., 400020.

Billimoria (M. M.) & Co., 416, Churchgate Chambers, 5, New Marine Lines, Churchgate, 400020.

Bilimoria Desai & Co., Sethna Bldg. 216, Princess St., 400002.

Billimoria (S. B.) & Co., 113, M. Gandhi Rd., Fort, 400001.

Bipin A. Choksi & Co., 107/11, Bhuleshwar, Kabutarkhana, 400002.

Bipinchandra & Co., 20/8, New Sion Co-op. Housing Society, Rd. No. 24, 400022.

Bipin Desai & Co., A-15/57, Govt. Housing Colony, Rajawadi, 400077.

Bipin B. Shah & Co., Warden House, Sir P. Mehta Rd., 400001.

Bipin N. Shah & Co., Kikabhai Mansion, Kika St. Corner, Null Bazar, 400004.

Borkar & Muzumdar, Sorab House, 235-237, Dr. D. Naoroji Rd., Fort, 400001.

Bothra & Co., 205/207, Lamington Rd., 400007.

Bothra (M. C.) & Co., 'Milan', 4th Rd. (T. P. S. III), Santa Cruz (East), 400055.

Bubble Kumar & Associates, Above Pyrkes, 373, Dr. D. Naoroji Rd., Fort, 400001.

Bukhari (M. A.) & Co., 27B, Mazagaon Terrace, Nesbit Rd., Mazagaon 400010.

Byramji (S. T.) & Co., Rubans Apartments, 30, Nepean Sea Rd., 400006.

Captain & Co., Advani Chambers, Sir P. Mehta Rd., Fort, 400001.

Chamankar (U. G.) & Co., 35, Hamam St., Behind Dena Bank, Fort, 400001.

Champaklal (M.) & Co., 145, Modi St., 400001.

Champaklal Shah & Co., Ibrahim Mansion, 366/68, Kalbadevi Rd., 400002.

Chamria (P. D.) & Co., 3/74, Gulmarg, Prabhat Colony Rd., No. 6, Santa Cruz (East), 400055.

Chandabhoy & Jassoobhoy, Advani Chambers, Sir P. Mehta Rd., Fort, 400001.

Chandrakant & Co., Sir Vithaldas Chambers, 16, Apollo St., Fort, 400001.

Chandrakant & Sevantilal, 4, Prospect House, 29, R. Dadaji Street, Fort, 400001.

Chandrakant G. Shah & Co., Shanti, 106, Navroji Hill Rd., No. 4, 400009.

Chandulal & Co., Khandelwal Bhuvan, 166-170, Dr. D. Naoroji Rd., Fort, 400001.

Chandulal M. Shah & Co., Kamdar Bldg., C. Patel St., Fort, 400001.

Chapatwala & Co., 113, Bazargate St., 400001.

Chaturvedi & Shah, Warden House, Sir P. Mehta Rd., Fountain, 400001.

Chaturvedi D. & Co., Warden House, Sir P. Mehta Rd., 400001.

Chaudhari (S. O.) & Co., Kundan Villa, Shivaji Park, Rd. No. 4, Dadar, 400028.

Chauhan (V.), 89-91, Bhandari St., Near Chakla St., 400003.

Chavan (N. B.) & Co., 162/A, J. Shankar Sett Rd., 400004.

Chhajed & Doshi, 105, Apollo St., 400001.

Chhajed (C. B.) & Co., 419, Loha-Bhawan, P. D'Mello Rd., 400009.

Chhatrapati (V. M.) & Co., 1/E, Rajni Kunj, M. Gandhi Rd., Kandivli (West), 400067.

Chhogmal & Co., Sir Vithaldas Chambers, 16, Apollo St., Fort, 400001.

Chhoi (A. B.) & Co., Crown Bldg., Urnwalla St., Grant Rd., 400007.

Chhotalal H. Shah & Co., "Gold Mohur", Princess St., 400002.

Chimanlal & Co., Ashok Nivas, South Pond Rd., Vile Parle (West), 400056.

Chinoy & Co., 45, Commercial Chambers, Masjid Bunder Rd., 400003.

Chitale (M. P.) & Co., Hamam House, Hamam St., Fort, 400001.

Choksey (P. G.) & Co., 31/33, Khara Kuwa, 400002.

Chokshi & Co., Yusuf Bldg., 9, A. Rehman St., 400003.

Chokshi & Desai, 11, Bank St., 400001.

Chokshi (C. C.) & Co., Mafatlal House, Backbay Recl., 400020.

Chokshi (I. A.) & Co., 41, Dhanji St., 400003.

Chokshi (K. J.) & Co., Shree Satyam, Opp. Burmah Shell Pump, Juhu Rd., 400054.

Chokshi (M. C.) & Co., Park Darshan Co-op. Housing Society, Bldg. No. 2, Opp. Lallubhai Park, Andheri (W), 400056.

Chokshi (N. K.) & Co., Sadguru Nivas, Opp. Prakash Studio, Andheri (East), 400069.

Chokshi (R. J.) & Co., Raja Bahadur Mansion, 14, Hamam St., Fort, 400001.

Chokshi (R. M.) & Co., 7, India House, Opp. G.P.O., Fort St., 400001.

Chokshi (S. B.) & Co., 11, Mukut, 20-B, S. Vivekanand Rd., Bandra (West), 400050.

Choksi (V. J.) & Co., Alima Bldg., 7, Nanabhai Lane, Fort, 400001.

Chopra (D. D.) & Co., 22, Mount Blanc., 67A, Napean Sea Rd., 400006.

Chopra (S. P.) & Co., 15-A, Horniman Circle, 400001.

Chopra, Robson, Morrow & Co., 15-A, Horniman Circle, Bombay 400001.

Chordia (B. F.) & Co., 1, Shyam Kamal, Opp. Vile Parle Stn. (East), 400057.

Chordia (K. S.) & Co., B-35, Mini Land, Tank Rd., Bhandup, 400078.

Choudhary (P. L.) & Co., 187, D. Agiari Lane, 400002.

Choudhary (S. B.) & Co., Manu Mansion, 16, Bhagatsingh Rd., Fort, 400001.

Coelho (R. J.) & Co., 8, Chimbai Rd., Bandra, 400050.

Colabawalla (G. J.) & Co., Lalchand Bldg., 261/263, Dr. D. Naoroji Rd., Fort, 400001.
Contractor (H. M.) & Co., Mustafa Bldg., 7, Sir P. Mehta Rd., Fort, 400001.
Contractor (R. N.) & Co., D-13, Cusrow Baug, Fort, 400001.
Cornelius & Daver, 61, M. Gandhi Rd., Fort, 400001.
Dadyburjor (J. R.) & Co., Dastur Bungalow, Naigaum Cross Rd., Dadar, 400014.
Daga (N. D.) & Co., 113, New Stock Exchange Bldg., Apollo St., 400001.
Dak (I. C.) & Co., 208, Samuel St., 13, Alankar, 400003.
Dalal (A. H.) & Co., Rajabahadur Mansion, 32, Apollo St., Fort, 400001.
Dalal & Dalal, 106, Churchgate Chambers, New Marine Lines, 400020.
Dalal & Shah, 49-55, Apollo St., Fort, 400001.
Dalal (C. C.) & Co., 26, Alli Chambers, Tamarind Lane, Fort, 400001.
Dalal (C. L.) & Co., 301B, Niranjan, 99, Marine Drive, 400002.
Dalal (G. M.) & Co., Kum-Kum, 5th Rd., Khar, 400052.
Dalal (J. G.) & Co., 11, Godavari Sadan, Guzder St., 400002.
Dalal (P. L.) & Co., Kamal Bhawan, 42, M. Gandhi Rd., Vile Parle (East), 400057.
Dalal (R. R.) & Co., 514, Churchgate Chambers, New Marine Line, 400020.
Dalal (S. C.) & Co., 803, Prospect House, R. Dadaji St., Fort, 400001.
Dalal (V. B.) & Co., C/o. Geeta Trdg. Co. Pvt. Ltd., 296, Bazargate St., Fort, 400001.
Dalal, Desai & Kumana, 23, Sir P. Mehta Rd., 400001.
Damani (P. G.) & Co., 68, C. P. Tank Rd., 400004.
Damania & Co., 29, Hira Kunj, 3rd Rd., Khar, 400052.
Damania (M. C.) & Co., 47, C. P. Tank Rd., 400004.
Damania, Panday & Bajan, Navsari Bldg., 240, Dr. D. Naoroji Rd., Fort, 400001.
Damji Merchant Co., Indian Mercantile Insurance Bldg., 31, Forbes St., 400001.
Damle & Co., Girgaum, 400004.
Damle (G. V.) & Co., Anand Nagar, D. Bldg., Forjett St., 400026.
Dandawate (S. G.) & Co., 7, Sai Prasad, 10th Rd., Chembur, 400071.
Dandekar (C. V.) & Co., C-14/112, Gandhinagar, M.I.G. Colony, Bandra (East), 400056.
Dandekar (D. M.) & Co., 7, Vishvakarma Bhuvan, Raichand Wadi, Gokhale Rd., South, 400028.
Dandekar (M. K.) & Co., "Manu Mansion," 16, Custom House Rd., 400001.
Dani (R. B.) & Co., A-401, Lakhani Nagar, Opp. Sarvodaya Hospital, L. B. Shastri Marg, Ghatkopar, 400086.
Dansingani (S. J.) & Co., Motlibai Wadia House, 22-D, Parsi Bazar St., Fort, 400001.
Dara Sorabji, "Byramji Mansion", Sir P. Mehta Rd., Fort, 400001.
Darak & Porwal, General Assurance Bldg., 232, D. Naoroji Rd., 400001.
Daroowalla (N. H.) & Co., Aharucha Bldg., 7, Gilder Lane, Tardeo, 400008.
Darukhanavala (P. D.) & Co., Soonamai House, 70-C, Gowalia Tank, 400026.
Dastur (B. B.) & Co., Bansilal Motilal Mansion, 22, Apollo St., Fort, 400001.
Dastur (B. C.), & Co., Reliance Bldg., 269, D. Naoroji Rd., 400001.
Dastur (D. N.) & Co., 140-44, New Stock Exchange, Bldg., Apollo St., Fort, 400001.
Dastur (E. J.) & Co., 5, "Dol-Bin-Shir", 59-71, Ghoga St., 400001.
Datanwalla & Co., 82, Anand Bhuvan, Mangalwadi, Girgaum, 400004.
Davar (N. S.) & Co., Jehangir Wadia Bldg., 51, M. Gandhi Rd., Fort, 400001.
Davar (N. S.) & Co., 51, M. Gandhi Rd., 400001.
Dave (C. M.) & Co., 103, C. P. Tank Rd., 400004.
Dave (J. S.) & Co., 25, Nawab Bldg., 327, Dr. D. Naoroji Rd., 400001.
Dave (P. J.) & Co., 32-A, West View, 10th, Khetwadi, 400004.
Dayalji Thakrar & Co., A-10, Gundecha Colony, 3rd Hemu Kolani Rd., 400067.
Deepak & Co., 9, Kamal Kunj, 4th Rd., Juhu Scheme, Vile Parle (West), 400056.
Desai & Desai, Munshaw House, 22, Gunbow St., Fort, 400001.
Desai & Co., 38, Police Court Lane, Fort, 400001.
Desai (A. J.) & Co., 15-A, Gandhi-Sadan, New Nagardas Rd., Andheri (East), 400069.
Desai (B. B.) & Co., India House, Bldg. No. 4, Kemps Corner, 400026.
Desai (B. D.) & Co., 361, Dr. D. Naoroji Rd., Fort, 400001.
Desai (B. G.) & Co., 83, Devchhaya, Tardeo Rd., 400034.
Desai (B. J.) & Co., Navin-Asha, 126, D. S. Phalke Rd., Dadar, 400014.
Desai (B. M.) & Co., 27, Himalaya Society, 41-A, Sahar Rd., Andheri (East), 400069.
Desai (B. N.) & Co., Cama Chambers, 23, Medows St., Fort, 400001.
Desai (C. K.) & Co., 28-A, Noble Chambers, Parsi Bazar St., Fort,400001.
Desai (D. S.) & Co., Rajesh Bldg., Lamington Rd., 400008.
Desai (K. C.) & Co., New Bldg., Inside M. Phule Market, Dr. D. Naoroji Rd., 400001.
Desai (K. G.) & Co., 11-B, Yusuf Bldg., M. Gandhi Rd., Fort, 400001.
Desai (K. P.) & Co., 226, Zaveri Bazar, 400002.
Desai (N. N.) & Co., Bombay Mutual Chambers, 19-21, Hamam St., Fort, 400001.
Desai (N. R.) & Co., Alli Chambers, Tamarind Lane, 400001.
Desai (P. B.) & Co., No. 3, Maheshwar Darshan, 4, S. Vivekanand Rd., Santa Cruz (West), 400054.
Desai (R. D.) & Co., Chandanmal Mansion, 431, Kalbadevi Rd., 400002.
Desai (R. H.) & Co., 187, Dr. D. Naoroji Rd., Fort, 400001.
Desai (V. C.) & Co., Vikas Wadi, 168/D, Dr. B. Ambedkar Rd., Dadar, 400014.
Desai (V. K.) & Co., Tara Bhuvan, 3rd Khetwadi Lane, N. Desai Rd., 400004.
Desai Thaker & Co., 12, Ganga Nivas, Azad St., Andheri (West), 400058.
Deshmukh (B. G.) & Co., 11/42, Yashwant Nagar, Goregaon (West), 400062.
Deshpande (A V.) & Co., "Parijat", 95, Marine Drive, 400002.
Deval (M. D.) & Co., 32, Swami Samartha Nagar, Cow Lane, Goregaon, 400062.

Devendra V. Sheth & Co., Stock Exchange Annexe, 5-A Hamam St., 400001.
Devi (U. G.) & Co., 7/10, Botawala Bldg., Horniman Circle, Fort, 400001.
Devidas Vithaldas & Co., Sir Vithaldas Chambers, 16, Apollo St., Fort, 400001.
Devraj & Co., No. 7 B.I.T., 2 Rooms, Matunga, 400019.
Dhagat & Co., 17, N. S. Sukhia St., Fort, 400001.
Dhanani & Juthani, 206, Navjivan Society Bldg. No. 1, Lamington Rd., 400008.
Dhanani (H. V.) & Co., 206, Navjivan Society Bldg. No. 1, Lamington Rd., 400008.
Dhanbhoora & Co., 59, Bombay Mutual Bldg., Sir P. Mehta Rd., Fort, 400001.
Dhandhania (H. R.) & Co., 613, Churchgate Chambers 5, New Marine Lines, 400020.
Dhanesha (S. S.) & Co., 27/105, Apollo St., Fort, 400001.
Dharia & Raikar, Ismail Bldg., 381, Dr. D. Naoroji Rd., 400001.
Dharia (I. O.) & Co., 381, Ismail Bldg., Dr. D. Naoroji Rd., 400001.
Dharia (P. M.) & Co., 9, Asha Lane, Off. Medows St., Fort, 400001.
Dharnidharka (S. K.) & Co., 4-C, Devashish, Peddar Rd., 400026.
Dhiraj Lal Desai & Co., Jhaveri House, 110, Medows St., Fort, 400001.
Dhere & Raikar, Indra Villa, 57, Ghoga St., Fort, 400001.
Dhiren Shah & Co., Manekji Padansiah Wadi, Sanitorium Lane, Ghatkopar (West), 400086.
Dholakia (J. K.) & Co., 30-B, Cowasji Patel St., 400001.
Dholaria (R. J.) & Co., 504, Kalbadevi Rd., 400002.
Dhole (G. S.) & Co., Shriji Bhuvan, 51, Mangaldas Rd. 400002.
Dhondy (H. B.) & Co., Taj Bldg., 210, Dr. D. Naoroji Rd., 400001.
Dhruva & Co., 'A' Block, Allarakhia 9th, Khetwadi Lane, 400004.
Dhruva (H. R.) & Co., Mallan Terrace, Grant Rd. 400007.
Dilip B. Desai & Co., 48/1, Kakad Wadi, 400004.
Dilip K. Seth & Co., 32, Western India House, Sir P. Mehta Rd., 400001.
Dilip Pandhi & Co., 8-N, Sikka Nagar, V. Patel Rd. 400004.
Dinesh B. Doshi & Co., Paliva Chawl, S. Memon St., 400002.
Dinesh Jain & Co., 17/1, Dattatraya Rd., Santa Cruz (West), 400054.
Dinesh Kapadia & Co., 13, Picket Cross Rd., 400001.
Dinubhai & Co., 65, M. Gandhi Rd., Fort, 400001.
Dipak Bhatia & Co., Dev Bhawan, 18, Walkeshwar Rd., 400006.
Dipak Shah & Co., Beach View, Chowpatty, 400007.
Divatia (S. R.) & Co., Kalandhar Cottage, 153, Ghodbunder Rd., Vile Parle (West), 400056.
Doodhwala (M. L.) & Co., 'B' Fort Chambers, 6-10, Dean Lane, Hamam St., Fort, 400001.
Doomasia (D. A.) & Co., Jehangir Mansion, 1st Marine St., 400002.
Dosabhoy J. Jassavala & Co., United Commercial Bank Bldg., 359, Dr. D. Naoroji Rd., Fort, 400001.
Doshi & Co., 72, Champa Gali, 400002.
Doshi (B. G.) & Co., 25, Noble Chambers, Parsee Bazar St., 400001.
Doshi (D. K.) & Co., 408, Arun Chambers, Tardeo, 400034.
Doshi (H. K.) & Co., Fancy Chambers, 94, Surat St., Dana Bunder, 400009.
Doshi (J. K.) & Co., 10, J. Tata Rd., Churchgate Recl. Fort, 400020.
Doshi (K. F.) & Co., 7, Sunder Bhawan, 32/38, P. Nariman St., Fort, 400001.
Doshi (K. H.) & Co., 24, Morvi House, 30, Goa St., Fort, 400001.
Doshi (M. C.) & Co., 308, Vaishal Apartments, 30-31, Parekh Lane, Opp. Harkisandas Hospital, 400004.
Doshi (M. J.) & Co., Commerce House, Medows St., Fort, 400001.
Doshi (N. G.) & Co., 108, Ustad Bldg., Zaveri Bazar, 400002.
Doshi (V. J.) & Co., 13-A, Benham Hall Lane, Prarthana Samaj, 400004.
Doshi, Gandhi, Dandekar & Co., Tardeo Air-Conditioned Market, 400034.
Dubash & Patil, Unique House, 25, Parsee Bazar St., Fort, 400001.
Dubash (F. J.) & Co., 631, Meher Villa, Parsi Colony, Dadar, 400014.
Dubey (S. P.) & Co., Sardar Nagar No. 1, 11/571, Sion Koliwada, 400022.
Dugal (G. S.) & Co., "IONIC" Bldg., E-1, Strand Rd., Colaba, 400005.
Dutia (N. H.) & Co., 204, 'S'1, Usha Kunj, Sion St., 400022.
Dutia Trivedi & Co., Bhagwan Bhawan, 19, Samuel St., 400009.
Fadia (H. A.) & Co., 3, Canel Cross Lane No. 4, Kalbadevi Rd., 400002.
Fakih & Co., 61, Mohamedali Rd., 400003.
Fatehi (M. A.) & Co., 317, A. Rehman St., 400003.
Ferguson (A. F.) & Co., Allahabad Bank Bldg., Apollo St., Fort, 400001.
Firoz Bhathena & Co., Navsari Bldg., Dr. D. Naoroji Rd., Fort, 400001.
Ford, Rhodes, Parks & Co., Bank of Maharashtra Bldg., 45-47, Apollo St., 400001.
Framroze S. Augra & Co., 79-80, Esplanade Mansions, M. Gandhi Rd., Fort, 400001.
Furia (C. V.) & Co., 140, N. Master Rd., 400001.
Gabhawala (C. M.) & Co., 42, Nanak Niwas, 30, Benham Hall Lane, 400004.
Gada (M. R.) & Co., 18, Derasar Bldg., Derasar Lane, 400077.
Gada (T. S.) & Co., 47, Fancy Chambers, Masjid Siding Rd., 400009.
Gadgil (G. K.) & Co., Commissariat Bldg., 231, Dr. D. Naoroji Rd., Fort, 400001.
Gadhia Karachiwalla & Co., 290, Frere Rd., 400001.
Gadre (S. V.) & Co., 4/15, Bedekar Sadan, Mughbhat, 400004.
Gaitonde-Teleng & Co., 182, New Amritwadi, Vithalbhai Patel Rd., Girgaum, 400004.
Gajanan Trimbaklal & Co., Chandra Bhuvan, 15, P. Rambhai Rd., 400007.
Gajare (D. P.) & Co., Cama Chambers, N. Master Rd., Fort, 400001.
Gala & Gala, Prem Bhavan, Bhat Bazar, 234-36, Narsi Natha St., 400009.

Gandhi (A. L.) & Co., 614, Churchgate Chambers, 5, New Marine Lines, 400020.
Gandhi (C. A.) & Co., Sambava Chambers, 20, Sir P. Mehta Rd., Fort, 400001.
Gandhi (D. C.) & Co., Cooper Bldg., 229, S. Gandhi Rd., 400002.
Gandhi (J. B.) & Co., 16/20, Navjivan Society, Lamington Rd., 400008.
Gandhi (J. K.) & Co., 36, Tarawala Bldg., 147, Lohar Chawl, 400002.
Gandhi (K. B.) & Co., Ganga Nivas, P. Mehta Rd., Vile Parle (East), 400057.
Gandhi (K. N.) & Co., Hari Kripa Cosmopolitan Co-op. Housing Society Ltd., S. Vivekanand Rd., Santa Cruz (West), 400054.
Gandhi (K. S.) & Co., 23-D Block, Arvind Niwas, Sandhurst Bridge, Chowpathy, 400007.
Gandhi (L. N.) & Co., 8/252, Shastri Nagar, Goregaon (West), 400062.
Gandhi (M. H.) & Co., Old Petit Mansion, 85, Sleater Rd., 400007.
Gandhi (N. B.) & Co., Arun Bldg., 77-B, Walkeshwar Rd., 400006.
Gandhi (P. R.) & Co., 42, Nanak Niwas, Benham Hall Lane, 400004.
Gandhi (R. J.) & Co., 82-86, A. Rehman St., 400003.
Gandhi (S. M.) & Co., Sheel Chambers, C. Patel St., 400001.
Gandhi (V. M.) & Co., 8, Chheda Bhavan, 98, Surat Street, 400009.
Gangal and Tulpule, Kataria Mansion, Dr. A. Besant Rd., 400018.
Ganu (L. M.) & Co., 12, Rampart Row, Fort, 400001.
Garg (K. K.) & Co., Laxmi Bldg., 127, Modi St., 400002.
Ghalla & Bhansali, Ind. Assurance Bldg., Opp. Churchgate Stn., Fort, 400001.
Ghanekar (P. D.) & Co., Commissariat Bldg., 231, Dr. D. Naoroji Rd., Fort, 400001.
Gharda (B. P.) & Co., 121, M. Gandhi Rd., Fort, 400001.
Ghatalia & Copper., 23, Advent, 12-A, Gen. Bhonsle Marg, 400001.
Ghatalia & Lad., Fort Chambers, 6, Dean Lane, Fort, 400001.
Ghatalia (S. V.) & Co., 23, Advent, 12-A, Foreshore Rd., 400001.
Ghelani (A. M.) & Co., 9, Kaushik Niwas, L. N. Rd., Matunga (C. R.), 400019.
Ghia (H. S.) & Co., Mohata Market Bldg., Palton Rd., 400001.
Ghyara (S. R.) & Co., National Insurance Bldg., 204, D. Naoroji Rd., Fort, 400001.
Girdhar D. Parekh, Premji Chamber, Hospital Lane, 400001.
Girish Dave & Co., 80, Piknik Apartment, Jaiprakash Rd., Versova, Andheri (West), 400058.
Girish G. Doshi & Co., 45/59, B. Genu Rd., Kalbadevi, 400002.
Girish M. Shah & Co., C-6, Jawan Nagar, 81, S. Vivekanand Road, Borivli (West), 400092.
Godha & Co., 43, Khurshed Bldg., Sir P. Mehta Rd., Fort, 400001.
Gogate (V. N.) & Co., 8, Kaustubh Co-op. Housing Society Ltd., Churiwadi, 400079.
Gohil (R. P.) & Co., 7, Vishnu-Krupa, Mahant Rd. Extn., Vile Parle (East), 400057.
Gokani & Co., 43, Chowpathy Rd., Jariwala Bldg., 400007.
Gokhale (N. S.) & Co., Bank of Baroda Bldg., Palton Rd., 400001.
Golwala & Co., Steel Centre, Ahmedabad St. Iron Market, 400009.
Gondalia & Mandviwalla, Hamam House, Hamam St., Fort, 400001.
Gool C. Kerawalla & Co., 52-E, Chotani Estate, Proctor St., Grant Rd., 400007.
Goradia (P. J.) & Co., 21, Bank of Baroda Bldg., Palton Rd., 400001.
Gosher (H. M.) & Co., "Geetanjali", 89, Vallabh Baugh, Cross Lane, Ghatkoper, 400077.
Gosher (T. M.) & Co., 209, Anant Bhuvan (New), 257/65, Narsi Natha St., 400009.
Goyal & Associates, 5/42, Tardeo, Air Conditioned Market, Tardeo, 400034.
Goyal (H. N.) & Co., 1-A, Chandra Niwas, Andheri Kurla Rd., Andheri (East), 400059.
Gubbi (N. S.) & Co., Fort Chambers, Hamam St., Fort, 400001.
Gulati (M. R.) & Co., Mahavir Bldg., 11, Homji St., Off Sir P. Mehta Rd., Fort, 400001.
Gumoshta (P. K.) & Co., Hari Niwas, 'C' Rd., Churchgate, 400020.
Gundaria & Co., Urmila Bhavan, Nadiadwala Colony No. 2, S. Vivekanand Rd., Malad (West), 400064.
Gunderia & Co., New Stock Exch. Bldg., Apollo St., 400001.
Gunvant C. Parikh & Co., 88, Shrinathji Bldg., 3rd Bhoiwada, Bhuleshwar, 400002.
Gunvant C. Shah & Co., Agakhan Bldg., 9, Dalal St., 400001.
Gupta (A. N.) & Co., 101-E, Walkeshwar Rd., 400006.
Gupta & Gupta, Air India Bldg., Nariman Point 400001.
Gupta (G. S.) & Co., Malee Chawl, 53, Clark Rd., 400011.
Gupta (H. C.) & Co., 120, Loha Bhavan, P. D'Mellow Rd., 400009.
Gupta (R. D.) & Co., 203, Niranjan Bldg., 99, Marine Drive, 400002.
Gupta (S. G.) & Co., Desai Market, 116, Modi St., 400001.
Gupta, Gupta & Dave, 201, Jolly Bhavan No. 1, 10, New Marine Lines, 400020.
Gupte & Co., 27, Ali Chambers, Tamarind Lane, 400001,
Gurav (M. G.) & Co., Navsari Chambers, Outram Rd., Fort, 400001.
Gutgutia (K. N.) & Co., General Assurance Bldgs., 232, Dr. D. Naoroji Rd., Fort, 400001.
Guzdar (J. D.) & Co., Malabar Mansion, Garden Rd., Fort, 400001.
Habib & Co., Pathalia Palace, 75, Mohamedali Rd., 400003.
Habib Siddiqui & Co., C-11, Hirji Govindji Block, New Nagpada Rd., 400008.
Hansotia (P. C.) & Co., Jehangir Wadia Bldg., 51, M. Gandhi Rd., Fort, 400001.
Haribhai Vithalani & Co., 1-D Cor House Chakla, 212/216, S. Devji St., 400003.
Haribhakti & Co., Bombay Mutual Chambers, 19-21, Hamam St., Fort, 400001.
Haridas & Co., 144, Bazar Gate St., 400001.
Hariharan & Co., 28, Western India House, Sir P. Mehta Rd., Fort, 400001.

Harish Agarwal & Co., Gandhi Mansion, N. Master Rd., 400002.

Harshad V. Desai & Co., 74/76, Bora Bazar St., Fort, 400001.

Hashim M. Ghadialli & Co., 126, A. Rehman St., 400003.

Hasmukhlal C. Shah & Co., 81A, Iron House, Cadell Rd., Mahim, 400016.

Heda (P.D.) & Co., Sailor Bldg., 373, Dr. D. Naoroji Rd., Fort, 400001.

Hejmady (D. P.) & Co., 17, Police Court Lane, Behind Handloom House, Fort, 400001.

Hingorani & Co., 519, Prasad Chambers, Near Roxy Cinema, 400004.

Homi S. Pardiwala & Co., 4/50, A. H. Wadia Baug, Parel Tank Rd., 400033.

Hoshang N. Vania & Co., Bhedwar House, 239, P. D'Mello Rd., Fort, 400001.

Husein (F. N.) & Co., 271, A. Rehman St., 400003.

Indapurkur (V. D.) & Co., 11/5, Parson House, Near Wireless Station, Andheri, 400058.

Indulal H. Shah & Co., Mistri Mansion, 107, M. Gandhi Rd., 400001.

Indulal Thaker & Co., Medows House, Medows St., Fort, 400001.

Iqbal A. Sayyid & Co., Ahmed Bldg., Dr. B. Ambedkar Rd., Byculla, 400027.

Jacob (G. T.) & Co., A-43, Seema Apartments, Bullock Rd., Band Stand, Bandra, 400050.

Jagasheth (A. N.) & Co., 46, C. Patel St., Opp. Hong Kong Bank, 400001.

Jagdish Marfatia & Co., 4, Neel Nandini-B, 69, Linking Rd., Khar, 400052.

Jagdish Verma & Co., 301-B, Niranjan, 99, Marine Drive, 400002.

Jagesh Desai & Co., 65, M. Gandhi Rd., Fort, 400001.

Jagtap (R. A.) & Co., 46, V. Nariman Rd., Fort, 400001.

Jaguard & Co., 133, Daruwala House, Main Rd., Khar, 400052.

Jain & Jain, 'Alankar', 208, Samuel St., 400003.

Jain (A. F.) & Co., 301-A, Neelkanth Bldg., 98, Marine Drive, 400002.

Jain (D. P.) & Co., 269, Jubilee Court, Linking Rd., Bandra, 400050.

Jain (G. L.) & Co., Raj Mahal, Churchgate, 400020.

Jain (G. O.) & Co., Shahviri Bldg., 37/41, Picket Rd., 400002.

Jain (G. R.) & Co., Kawaji Jivji House, Trombay Koliwada, Trombay, 400088.

Jain (H. C.) & Co., Pankaj Mansion-B-102, Near Buddha Mandir, Dr. A. Besant Rd., Worli, 400018.

Jain (H. R.) & Co., 6, Chinawala Bldg., Jail Rd., (East), 400009.

Jain (J. R.) & Co., 212, Lucky Mansion, Dr. Maheshwar Rd., 400009.

Jain (K. J.) & Co., Seksaria Chambers, 139, Medows St., Fort, 400001.

Jain (N. G.) & Co., 7, Banoo Mansion, Gopal Lane, Fort, 400001.

Jain (P. C.) & Co., Gopal Niwas, 133, Princess St., 400002.

Jain (P. H.) & Co., 29, National Library Rd., Brother House, Bandra, 400050.

Jain (R.) & Co., 301-B, Niranjan, 99, Marine Drive, 400002.

Jain (R. L.) & Co., Stock Exchange New Bldg., Apollo St., Fort, 400001.

Jain (T. S.) & Co., B-7, Juhu Apartments, Behind Lido Cinema, Juhu Rd., Santa Cruz (West), 400054.

Jain (V. R.) & Co., 288, Kalbadevi Rd., 400002.

Jain Parekh & Co., "Lal-Mani", 25/31, Dr. A. Merchant Rd., Bhuleshwar, 400002.

Jaju (M. M.) & Co., 36, Dalal St., Fort, 400001.

Jaju (R. R.) & Co., L. B. Shastri Marg, Bhandup, 400078.

Jakhotia (S. R.) & Co., A/33, Noble Chambers, Parsi Bazar St., Fort, 400001.

Jani (J. V.) & Co., Ganga Vihar, 192/11, Daulatnagar Rd., Borivli (East), 400066.

Jashvantlal M. Shah & Co., 4, Sidi Sadan, V. Patel Rd., Borivli (West), 400092.

Jariwala (B. N.) & Co., 73, Bank of Baroda Bldg., Palton Rd., 400001.

Jariwala (S. C.) & Co., 23, Ful Gali, Bhuleshwar, 400002.

Jasavant Lakhani & Co., 83, Commercial Chamber, Masjid Bunder Rd., 400003.

Jasuja (J. C.) & Co., Churchgate Chambers, 5, New Marine Lines, 400020.

Jatin & Co., Unique House, Parsee Bazar St., Fort, 400001.

Jawkar (N. J.) & Co., B-6, Iswar Nagar, Agra Rd., Bhandup, 400078.

Jay S. Rai & Co., 29-B, Krishnakunj, S. Vivekanand Rd., Andheri, 400058.

Jayant & Associates, Union Co-op. Insurance Bldg., 23, Sir P. Mehta Rd., Fort, 400001.

Jayant Karani & Co., 187, Princess St., Above Bank of Baroda, 400002.

Jayant M. Shah & Co., Laxmi House, 177-179, Kalbadevi Rd., 400002.

Jayant Shyam & Co., Ganesh Niwas, Prabhat Colony Rd., Santa Cruz (East), 400055.

Jayantilal M. Shah & Co., 105, Apollo St., 400001.

Jayantilal Patel & Co., 5, Hari Bhavan, Tejpal Rd., 400007.

Jayantilal Thakkar & Co., 111-A, M. Gandhi Rd., Fort, 400001.

Jayaraman (R. S.) & Co., 'Bahar', Uttam Co-op. Housing Society Ltd., St. Anthony Rd., Chembur, 400071.

Jayendra & Co., Gandhi Sadan, 4-5, New Nagardas Rd., Andheri (East), 400069.

Jaysinh B. Kapadia & Co., Kapadia Baug, S. Vivekanand Rd., Borivli, 400066.

Jehangir N. Vachha & Co., 22, Hampton Court, 125, Wode House Rd., 400005.

Jhaveri (B.) & Co., 126-128, S. Memon St., Opp. Khara Kuva, 400002.

Jhaveri (D. S.) & Co., Labhakunj, Lajpatrai Rd., Vile Parle (West), 400056.

Jhaveri (P. N.) & Co., 10-A, Tamarind House, Tamarind Lane, Fort, 400001.

Javeri (S. J.) & Co., 24/28, Champa Gali, 400002.

Jimulia (D. G.) & Co., Kishore Bldg., 521, Kalbadevi Rd., 400002.

Jindal Mehta & Co., 98, 3rd Bhoiwada, Bhuleshwar, 400003.

Jitendra & Co., Bori's Chawl, Opp. Novelty Cinema, Grant Rd., 400007.

Jitendra Shah & Co., 18, 198, Wadala Rd., Ratan Bhavan, 400031.

Jobalia (K. D.) & Co., 145-A, Jain Society, Sion, 400022.

Jog (A. B.) & Co., F 8, Yojana Tilak Nagar, S. V. Patel Rd., 400004.

Jog (S. P.) & Co., 114-A, Narayan Sadan, V. Patel Rd., 400004.

John (M. M.) & Co., E 3, Ben Nevis, B. Desai Rd., 400026.

Jokhakar (B.D.) & Co., 8, Hamam Street, Fort, 400001.

Jorapur (K. B.) & Co., 9, Ash Lane, Medows St., Fort, 400001.

Joseph Anthony & Co., G-11, Saraswat Housing Society, Govandi Rd., Chembur, 400071.

Joshi (D. D.) & Co., Mahavir Chambers, 1/5, Banaji St., Fort, 400001.

Joshi (G. N.) & Co., Navsari Chambers, Outram Rd., Fort, 400001.

Joshi (K. R.) & Co., 109, Gaya Bldg., Masjid Bunder Rd., 400003.

Joshi (L. D.) & Co., 73-75, Mirza St., 400003.

Joshi (L. M.) & Co., Readymoney Mansions, V. Nariman Rd., Fort, 400001.

Joshi (M. P.) & Co., 14, Gaya Bldg., 109, Masjid Bunder Rd , 400003.

Joshi (R. D.) & Co., 59, Forbes St., Fort, 400001.

Joshi (R. S.) & Co., 648, J. Shankershet Rd., Dhobi Talao, 400002.

Joshi (S. R.) & Co., 2, Yaswant, 36, G. V. Scheme Rd., No. 2, Mulund (East), 400081.

Joshi (V. B.) & Co., 4, Chandramauli, 138-40, St.-9, Daulat Nagar, Borivli (East), 400066.

Joshi (V. V.) & Co., 1-1, Sharadashram, 400028.

Joshi Joshi & Co., Shree Mahavir Chamber, 1/5, Banaji St., Fort, 400001.

Junagade (A. K.) & Co., 67, Dr. M. B. Raut Rd., Shivaji Park, Dadar, 400028.

Juthani & Co., 206, Navjivan Society Bldg. No. 1, Lamington Rd., 400008.

Kailash (B.) & Co., 46-C, Bombay Mutual Chambers, 19-21, Hamam St., 400001.

Kakaria (J. M.) & Co., 512, Prasad Chambers, Opera House, 400004.

Kale (A. P.) & Co., 5/6, Shah Bldg., Lady Hardinge Rd., Mahim, 400016.

Kalyani (J. H.) & Co., Navsari Bldg., 240, Dr. D. Naoroji Rd., Fort, 400001.

Kalyaniwalla & Mistry, Maneckji Wadia Bldg., 127, M. Gandhi Rd., 400001.

Kamal Seth & Co., 7th Rd., Santa Cruz (East), 400055.

Kamal Uddin & Co., 25, Bora Cross Lane, Colaba, 400005.

Kamat (P. V.) & Co., 12, Khandelwal Bhavan, 166, Dr. D. Naoroji Rd., 400001.

Kamath (G. S.) & Co., 418, Arun Chambers, Tardeo Rd., 400034.

Kamdar (A. J.) & Co., 4B-1, Court Chamber, 35, Marine Lines, 400020.

Kamdar Desai & Patel, 404, Commerce House, 140, Medows St., Fort, 400001.

Kanani (H. M.) & Co., 22, Hem Prakash, 90/92, Kazi Syed St., 400003.

Kanga (J. R.) & Co., Wadia Bldg., 123, M. Gandhi Rd., Fort, 400001.

Kanji (S. A.) & Co., 100/04, Medows St., Fort, 400001.

Kantan (R. S.) & Co., 162-D, Vincent Rd., Dadar, 400014.

Kanti A. Gandhi & Co., 80, Dr. M. B. Velkar St., Chira Bazar, 400002.

Kantilal Patel & Co., 211-13, Kalbadevi Rd., Near Cotton Exchange, 400002.

Kanvinde & Kelkar, 412, Anant Deep Chambers, 273/77, Narsi Natha St., 400009.

Kapadia & Birader, 390, Mangaldas Market, S. Memon St., 8th Gali, 400002.

Kapadia & Malbari, Lentin Chambers, Dalal St., Fort, 400001.

Kapadia (B. T.) & Co., 65, Vithal Wadi, Kalbadevi Rd., 400002.

Kapadia (G. M.) & Co., 36 B, Tamarind House, Tamarind Lane, Fort, 400001.

Kapadia (G. P.) & Co., Hamam House, Hamam St., Fort, 400001.

Kapadia (H. D.) & Co., 35, Cavel St., 400002.

Kapadia (H. S.) & Co., 22-D, Parsee Bazar Street, Fort, 400001.

Kapadia (J. D.) & Co., 35, Cavel St., Kalbadevi Rd., 400002.

Kapadia (J. K.) & Co., Krishna Bhuvan, 146, Dr. Viegas St., 400002.

Kapadia (K. K.) & Co., Bombay Mutual Annexe, Gunbow St., 400001.

Kapadia (L. K.) & Co., Raja Bahadur Motilal Mansion, Hamam St., Fort, 400001.

Kapadia (P. K.) & Co., Mulji Jetha Bldg., 12, Champa Guly Cross Lane, 400002.

Kapadia (P. L.), Lentin Chambers, Dalal St., Fort, 400001.

Kapadia (S. N.) & Co., Shree Niwas House, Waudby Rd., Fort, 400001.

Kapadia (V. G.) & Co., 201, Walkeshwar Rd., 400006.

Kapadia Damania & Co., Bhupen Chambers, 9, Dalal St., Fort, 400001.

Kapani (A. L.) & Co., 121/4, Fort St., 400001.

Kapoor (M.) & A. Sayed, 17, Tinwalle Bldg., Tribhuvan Rd., 400004.

Kapoor (P. P.) & Co., 52, Sukha Nand Chawl, C. P. Tank, 400004.

Kapoor (S.) & Co., 12, Vasundhara, B. Desai Rd., 400026.

Kapoor (S. M.) & Co., Nanabhoy Mansion, Sir P. Mehta Rd., 400001.

Kapoor (S. S.) & Co., 157, Princess St., 400002.

Kapur (A.) & Co., 'Jyoti', Nepean Sea Rd., 400004.

Kapur (M. L.) & Co., C-44/401, Gandhinagar, Bandra (East), 400051.

Kapur (N. D.) & Co., Kamani Chambers, Nicol Rd., Ballard Estate, 400001.

Karachiwalla & Co., 50/52, Underia St., 400008.

Karachiwala (Z. Z.) & Co., Abbas Manzil, 78, Sarang St., 400003.

Karanjia (N. P.) & Co., Adenwala Bldg., Rd. No. 8, Parsi Colony, Dadar 400014.

Karkhanis (P. V.) & Co., Agakhan Bldg., 9, Dalal St., Fort, 400001.

Karmarkar & Co., Uco Bank Bldg., 359, Dr. D. Naoroji Rd., Fort, 400001.

Karnavat & Co., Kitab Mahal, 192, Dr. D. Naoroji Rd., 400001.

Karnik (S. R.) & Co., 95, Haveliwala House, Paranjpe B. Scheme Rd. 3, Vile Parle (East), 400057.

Kastur (V. N.) & Co., Ghia Bldg., 121-123, Princess St., 400002.

Kathiwalla (A. R. E.) & Co., 1, Omer Park, Jai Prakash Rd., Andheri, 400058.

Katrak (P. J.) & Co., Sheri House, C. Patel St., Fort, 400001.
Katrak (S. J.) & Co., Sheri House, C. Patel Rd., Fort, 400001.
Kaushik H. Desai & Co., B-42, Polanji Sojpal Bldg., Portugese Church St., Dadar, 400028.
Kawatkar (S. S.) & Co., 22, Shirish Makar and Saha Niwas, 26/4, Tulsi Pipe Rd., Dadar, 400014.
Kelkar (N. V.) & Co., Nirmal Niwas, Datar Colony, Bhandup (East), 400078.
Kelkar (R. H.) & Co., Meherwan Bldg., Sir P. Mehta Rd., Fort, 400001.
Kersi N. Amaria & Co., Tehmi Mahal, 580, Jam-e-Jamshed Rd., Matunga, 400019.
Ketkar & Co., 41, Laxmi Bldg., Sir P. Mehta Rd., Fort, 400001.
Ketkar (A. W.) & Co., 39, Ismail Bldg., Dr. Ambedkar Rd., Dadar, 400014.
Ketkar (D. B.) & Co., Advani Chambers, Sir P. Mehta Rd., 400001.
Khadawala (M. P.) & Co., Air Conditioned Market, Tardeo, 400034.
Kambata (A. S.) & Co., Ness Baug Annexe 11, Nana Chowk, 400007.
Khambata (R. K. J.) & Co., Rajab Mahal, 144, Queens Rd., Fort, 400001.
Khan & Co., 6, Commercial Chambers, Y. Meheraly Rd., 400003.
Khandekar (A. K.) & Co., Navi Tamakhuwala Chawl, 68, Khadilkar Rd., Girgaum, 400004.
Khandelwal (G. S.) & Co., Soorya Mahal, 5, Military Sq. Lane, Fort, 400001.
Khandelwal (S.) & Co., Lentin Chambers, 36, Dalal St., Fort, 400001.
Khandelwal & Thaker, Desai Market, 160, Modi St., Fort, 400001.
Khandelwal Jain & Co., Baldota Bhawan, 117, M. Karve Rd., 400020.
Khandelwal & Shah, 216, Commerce House, Medows St., Fort, 400001.
Khandwala (V. M.) & Co., Kaka Bldg., 505, Kalbadevi Rd., 400002.
Khankhoje & Co., 266, Bazargate St., Fort, 400001.
Khanna (C. L.) & Co., 9/431, Nirmal Bldg., 15th Rd., Khar, 400052.
Khanna (J. K.) & Co., 429, Arun Chambers, Tardeo Main Rd., 400034.
Khanna (R. R.) & Co., Jolly Bhawan, 10, New Marine Lines, Churchgate, 400020.
Khanna Mathur & Associates, Fazalbhoy House, Barrack Road, Bombay, 400020.
Khare & Co., Dr. Ferreira Bldgs., Goregaon, 400062.
Khare (B. K.) & Co., Jehangir Bldg., 133, M. Gandhi Rd., 400001.
Khare (G. P.) & Co., Block-C-1-4, Tata Housing Colony, Andheri, 400058.
Khare (V. T.) & Co., Maharaja Bldg., Goregaon, 400062.
Kharkar Sharad & Co., 162, Nagdevi St., 400002.
Khasgiwala (A. F.) & Co., Kitab Mahal, 192, Dr. D. Naoroji Rd., Fort, 400001.
Khasgiwala M. R. & Co., 19, Ashok Nivas, 390, Delisle Rd., 400011.
Khasgiwala (S. R.) & Co., J 19/660, Tilak Nagar, Chembur, 400071.
Khatri (A. K.) & Co., 31, Kirti Bldg., Forbes St., Fort, 400001.
Khemka (J. P.) & Co., 44, Khattar Ali Lane, 400004.
Kherada (S. A.) & Co., Bismillah House, 108/110, Gughari-Mohalla, 400003.
Kheshwalla (K. B.) & Co., 20, Alli Chambers, Medows St., Fort, 400001.
Khimji Kunverji & Co., Bombay Mutual Bldg., Sir P. Mehta Rd., Fort. 400001.
Khivesara (N.) & Co., 30, Ramwadi, Kalbadevi, 400002.
Khokhani & Co., 20, Hamam St., 400001.
Khombhadia (J. V.) & Co., Behind Rajawadi Post Comp., Ghatkopar, 400077.
Khosla (D. P.) & Co., 19-21, Bombay Mutual Chambers, Hamam St., Fort, 400001.
Khosla (V. L.) & Co., 369, Girgaum Rd., 400002.
Kirti & Co., Karuna Sagar, Develhar Rd., Matunga, 400019.
Kisnnadwala & Co., 66A, Podar Chambers, Parsi Bazar St., 400001.
Kishore A. Parikh & Co., 41, Hindu Friends' Society, Jogeshwari (East), 400060.
Kolatkar & Dandekar, East & West Bldg., 55, Apollo St., Fort, 400001.
Koralwala (J. A.) & Co., 414, Cotton Exchange Bldg., Kalbadevi Rd., 400002.
Kothari & Co., 508, Churchgate Chambers, 5, New Marine Lines, 400020.
Kothari & Jain, Seksaria Chambers, 139, Medows St., Fort, 400001.
Kothari (D.) & Co., 174, Carnac Rd., 400002.
Kothari (D. A.) & Co., 221, Himalaya House, 79, Palton Rd., 400001.
Kothari (D. R.) & Co., 174, Carnac Rd., 400002.
Kothari (D. S.) & Co., Seksaria Chambers, 139, Medows St., Fort, 400001.
Kothari (K. M.) & Co., 46, Sahakar Niwas, Tardeo Rd., 400034.
Kothari (S. P.) & Co., Vimal Co-op. Housing Society, 91-L, Banganga Rd., 400006.
Kothari (V. S.) & Co., 126-A, "Siddharath", Sion (West), 400022.
Krishna (S. A.) & Co., Bottawalla Bldg., 11, Elphinstone Circle, Fort, 400001.
Krishna Iyer (P. P.) & Co., Rashmi Vihar, K. A. Subramaniam Rd., Matunga, 400019.
Krishnamurthy (V.) & Co., 6/66, Welfare House, Sion (West), 400022.
Krishnan & Muni, Bottawala Bldg., Horniman Circle, Fort, 400001.
Krishnan (S.) & Co., 11, Botawalla Bldg., Elphinstone Circle, Fort, 400001.
Kucheria & Associates, 508, Churchgate Chambers, 5, New Marine Lines, 400020.
Kudia (A. G.) & Co., 8, Lucky Mansion, Mohammedali Rd., 400003.
Kulin V. Munim & Co., Bharat House, 104, Apollo St., Fort, 400001.
Kulkarni & Khanolkar, Bell & Co.'s Bldg., Sir P. Mehta Rd., Fort, 400001.
Kulkarni (A. M.) & Co., 20/21A, Tejpal Rd., 400007.
Kulkarni (S. S.) & Co., 418, Arun Chambers, Tardeo Rd., 400034.
Kumar & Co., 168, Bazar Gate St., Fort, 400001.
Kumar & Desai, 168, Bazar Gate St., Fort, 400001.
Kumbhani (H. P.) & Co., India House, Opp. G.P.O., Fort, 400001.

Kunte (P. D.) & Co., 199, Churchgate Recl., 400020.

Kuvelkar & Naik, 403, Green House, Green St., Fort, 400001.

Kyal (H. S.) & Co., Stock Exchange New Bldg., Hamam St., Fort, 400001.

Ladda (B. B.) & Co., 167-171, S. Memon St., 400002.

Ladhawala & Shah, 211/13, Kalbadevi Rd., 400002.

Lakdawala (B. B.) & Co., Lakdawala Bldg., Dr. Deshmukh Lane, V. Patel Rd., 400004.

Lakhani & Co., 27, Commercial Chambers, Masjid Bunder Rd., 400003.

Lakshmanan (N.) & Co., 39, Ghodbunder Rd., Behind Caltex Petrol Pump, Khar, 400052.

Lal & Co., Srivenkateswara Market, Ave. Rd., 400002.

Lalani (J. V.) & Co., 83, Moreland Rd., 400008.

Lalit Gandhi & Co., Fort House, Dr. D. Naoroji Rd., 400001.

Lalit Khanna & Co., 8-A, Parekh Mahal, V. Nariman Rd., 400020.

Lalkaka (K. K.) & Co., Churchgate Chambers, New Marine Lines, 400020.

Lapsiwala (M.) & Co., 406, Churchgate Chambers, 5, New Marine Lines, Churchgate, Bombay, 400020.

Laxman & Co., Jawahar Nagar, Goregaon (West), 400063.

Limjerwalla (P. P.) & Co., C-23, Shanti Niketan, Agra Rd., Ghatkopar, 400086.

Lodha & Co., Karim Chambers, 40, Hamam St., Fort, 400001.

Lodha (L. S.) & Co., 13, Alankar, 208, Samuel St. 400003.

Lodha Patwa & Co., C-3, Sunder Nagar, Malad (West), 400064.

Lovelock and Lewes, Elphinstone Bldg., V. Nariman Rd., 400001.

Lugman (M.) & Co., 11, Gulab Manzil, Badloopura, Sankli St., 400008.

Madanlal (M.) & Co., J-1, Sikka Nagar, V. Patel Rd., 400004.

Madan Mohan & Co., 324, V. Patel Rd., 400004.

Madhavani (D. S.) & Co., Kishore Bldg., 521, Kalbadevi Rd., 400002.

Madhoo & Co., 13, Sita Sadan, 7, H. Bagan Rd., Malad (East), 400064.

Madhusudan Dave & Co., Noble Chambers, Parsee Bazar St., Fort, 400001.

Madhusudan Sardesai & Co., 11/4, Lokamanya Nagar, K. Gadgil Marg, Gokhale Rd. South, Dadar, 400025.

Madlani & Vithlani, 26/2, Old Hanuman Gali, 1st Cross Lane, Kalbadevi Rd., 400002.

Madan (A. S.) & Co., 79/80, Esplanade Mansions, M. Gandhi Rd., Fort, 400001.

Madon (J. A.) & Co., "Tardeo Court", 251-A, Tardeo Rd., 400007.

Maganlal & Co., 32, Apollo St., Fort, 400001.

Maganlal Jivram & Co., 7, Gola Lane, Banoo Mansion, Fort, 400001.

Mahajan (H. B.) & Co., Handloom House Annexe, 38, Police Court Lane, 400001.

Mahajan, Banka & Agrawal, Handloom House Annexe, 38, Police Court Lane, 400001.

Mahajan (S. Y.) & Co., Madhavashram, 18, Parekh St., Girgaum, 400004.

Mahajani (J. L.) & Co., Bhagwan Bhavan, 31, Ismail Moholla St., Musjid Bunder Rd., 400009.

Mahasukh P. Shah & Co., 96, Kika St., 400004.

Mahendra H. Shah & Co., "Shankar Chhaya", M. Gandhi Rd., Ghatkopar (East), 400077.

Mahendra Shah & Co., 12-A, Divali Darshan, M. L. Rd., Borivli (East), 400092.

Mahesh Gandhi & Co., 11, Gopal Niwas, R. R. Trivedi Rd., Mulund, 400080.

Mahesh Jhavery & Co., Rustom Bldg., 29, Veer Nariman Rd., 400001.

Mahesh Kothari & Co., 7/17, Air-Conditioned Market, Tardeo Rd., 400034.

Maheshwari & Co., 168-169, C. S. T. Rd., 400029.

Maheshwari (B. R.) & Co., 27-A, Brahmanwada Rd., King Circle, Matunga, Bombay, 400019.

Maheshwari (N. L.) & Co., Mangal Karani Housing Society, Near Sidharth Nagar, Goregaon (West), 400062.

Maheshwari (S. C.) & Co., 50, Shivlal Motilal Mansion, Lamington Rd., 400008.

Mainthia (B. T.) & Co., 31, Commercial Chambers, Junction of Masjid Bunder & Mohd. Ali Rd., 400003.

Maiya (J. M.) & Co., B-4, Jeevan Sangam Co-op. Housing Society, 16-A, Dadabhai Rd., Andheri (West), 400058.

Majibail & Co., Indira Villa, 57, Gogha St., Fort, 400001.

Majithia (R. S.) & Co., Jamna Bldg., Jambulwadi (E), Kalbadevi Rd., 400002.

Mala & Mala, 121, S. Devji St., 400003.

Malesaria (H. J.) & Co., 9-3, Tata Colony, Tardeo, 400034.

Malia (A. C.) & Co., 8, Parvati Niwas, M. Gandhi Rd., Mulund, 400080.

Malik Somjee & Co., 182, Y. Mehrali Rd., 400003.

Malik (R. B.) & Co., Veer Mahal, Jijeebhoy Lane, Lalbaug, 400012.

Mall (S.) & Co., 20, Vithal Wadi, 400002.

Manek & Co., Yusuf Bldg., Flora Fountain, 400001.

Manek Bhathena & Co., Central Bank Bldg., M. Gandhi Rd., Fort, 400001.

Maneklal (C.) & Co., 506, Prasad Chambers, Swadeshi Mills Comp., Opera House, 400004.

Manik (K. R.) & Co., Great Western Bldg., 130-132, Apollo St., Fort, 400001.

Mannur (P. G.) & Co., 219, Commerce House, Medows St., Fort, 400001.

Mantri (M. M.) & Co., 62, Mangal Kiran, 17th Siddarthnagar, 400062.

Mantri (N. R.) & Co., 12, Jaigopal Housing Society, New Liberty Garden, Malad (East), 400064.

Mantri (R. A.) & Co., Block 6A, Sitaram Co-op. Society, L. Devidayal Rd., Mulund (West), 400080.

Manubhai Desai & Co., Mirabelle Hotel, 33-A, New Marine Lines, 400002.

Manubhai Joshi & Co., Nitin Mansion, 203, Dr. D. Naoroji Rd., Fort, 400001.

Mapara (Y. C.) & Co., 16, Apollo St., Fort, 400001.

Marfatia & Co., 22/85, Yeshwant Nagar, Goregaon (West), 400063.

Marfatia (P. H.) & Co., 13th Gazdar St., Chira Bazar, 400002.

Mashru (P. P.) & Co., D-3, Commerce Centre, New Tardeo Rd., 400034.

Master (S. S.) & Co., 26-A, Park Rd., Vile Parle (East), 400057.

Mauskar (S. V.) & Co., C/24, Singh Estate, 126, D. S. Phalke Rd., Dadar, 400014.

Mavani (T. G.) & Co., 23, Noble Chambers, Parsee Bazar St., Fort, 400001.

Mayra & Kharti, Bhagwan Bhavan, 31, Israil Mohalla St., Musjid Bunder Rd., 400003.

Meenakshi & Co., Sita Niwas, 14th Rd., Chembur, 400071.

Mehendale (A. S.) & Co., 10-B, Mehandale Bldg., 203-223, V. Patel Rd., Goregaon, 400062.

Mehra (B. K.) & Co., Shillo House, 20th Khar-Danda Rd., 400052.

Mehra (J. J.) & Co., 156, Zaveri Bazar, 400002.

Mehra (P. R.) & Co., 416, Churchgate Chambers, 5, New Marine Lines, 400020.

Mehra Khanna & Co., Nanabhoy Mansion, Sir P. Mehta Rd., 400001.

Mehta (A. B.) & Co., C-1, Roop Nagar, S. Vivekanand Rd., Kandivli (West), 400067.

Mehta & Mehta, 408, Churchgate Chambers, 5, New Marine Lines, Churchgate, 400020.

Mehta & Shah, Karim Chambers, 42, Hamam St., Fort, 400001.

Mehta (A. V.) & Co., 146, Dr. Viegas St., 400002.

Mehta (B. H.) & Co., 43/1269, Nehru Nagar, Kurla (East), 400070.

Mehta (C. L.) & Co., 22, Apollo St., Fort, 400001.

Mehta (C. V.) & Co., 505, Commerce House, 140, Medows St., 400001.

Mehta (G. G.) & Co., 66, Medows St., Fort, 400001.

Mehta (H. D.) & Co., Karim Chambers, 42, Hamam St., 400001.

Mehta (H. N.) & Co., 50-51, Ali Chambers, Tamarind Lane, Fort, 400001.

Mehta (I. S.) & Co., Dol-Bin-Shir, 69-71, Ghoga St., Fort, 400001.

Mehta (J. D.) & Co., Surya Mahal, 276-B, Girgaum Rd., 400004.

Mehta (J. B.) & Co., Shabeer Manzil, 54, A. Rehman St., 400003.

Mehta (J. G.) & Co., Municipal Ind. Estate, 53, Bapti Rd., 400008.

Mehta (M. D.), 171, Dr. D. Naoroji Rd., 400001.

Mehta (M. M.) & Co., Laxmi Baug (Ajit Baug), M. Gandhi Rd., Kandivli (West), 400067.

Mehta (M. Y.) & Co., 8A, Hirji, Govindji Comp., S. Zuber Rd., New Nagpada, 400008.

Mehta (N. C.) & Co., 26-28, Noble Chambers, Parsi Bazar St., Fort, 400001.

Mehta (N. N.) & Co., Kaka Bldg., 221, A. Rehman St., 400003.

Mehta (N. O.) & Co., 509-F, Niranjan, 99, Marine Drive, 400002.

Mehta (N. R.) & Co., New Sarvottam Society, Bldg. No. 1, Irla Bridge, Andheri (West), 400058.

Mehta (N. V.) & Co., Court House, Carnac Rd., Dhobi Talao, 400002.

Mehta (P. D.) & Co., Fazalbhoy Bldg., 45, M. Gandhi Rd., Fort, 400001.

Mehta (P. R.) & Co., 418, Chhotalal Bhuvan, Kalbadevi Rd., 400002.

Mehta (R. K.) & Co., 3-B, Western India House, Sir P. Mehta Rd., Fort, 400001.

Mehta (S. D.) & Co., Prem Bhavan, 234/236, Narsi Natha St., 400009.

Mehta (S. H.) & Co., 183, Manchhubhai Rd., Malad (East), 400064.

Mehta (T. C.) & Co., 24-26, Cama Bldg., Dalal St., Fort, 400001.

Mehta Vij & Co., P. B. No. 582, G.P.O., 400001.

Mehta Chokshi & Shah, Cooper Bldg., 229, S. Gandhi Marg, 400002.

Mehta (Y. A.) & Co., 50-51, Ali Chambers, Tamarind Lane, Fort, 400001.

Memon (A. G.) & Co., 290, Katayum Mansion, Lamington Rd., 400007.

Menon (T. P.) & Co., 28, Western India House, Sir P. Mehta Rd., Fort, 400001.

Merchant & Co., 16/3, D. S. Agiary Lane, Wandrawala Bldg., Kalbadevi, 400002.

Merchant (A. M.) & Co., 2/23, Ali Chambers, Tamarind Lane, 400001.

Merchant (A. N.) & Co., 1-D, Pil Court, 111, Queen's Rd., 400001.

Merchant (A. S.) & Co., 327, A. Rehman St., 400003.

Merchant & Fozdar, Commerce House, Medows St., 400001.

Merchant (C. A.) & Co., Commerce House, 140, Medows St., 400001.

Merchant (N. E.) & Co., Lucky Mansion, Mohamedali Rd., 400003.

Merchant (R. F.) & Co., Shrinath Bhuvan, 27, Picket Rd., 400002.

Mhetre (K. B.) & Co., Elphinstone Bldg., 10 V. Nariman Rd., Fort, 400001.

Minoo M. Ghiiara & Co., 6/66, Navjivan Bldgs., Lamington Rd., 400008.

Misar (S. G.) & Co., 65, M. Gandhi Rd., Opp. Bank of India Bldg., Flora Fountain, Fort, 400001.

Mistry (H. D.) & Co., 7, Bruce St., Fort, 400001.

Mithani & Co., 2nd Fl., 609, Singapuri Bldg., J. Shanker Shet Rd., Girgaum, 400004.

Mitra (P. K.) & Co., Maneckji Wadia Bldg., 127, M. Gandhi Rd., 400001.

Modi (A. B.) & Co., 44, Yusuf Bldg., M. Gandhi Rd., Fort, 400001.

Modi & Co., 54A, Ali Chambers, Tamarind Lane, 400001.

Modi (I. V.) & Co., Manilal Bhuvan, Dadabhai Cross Lane, Vile Parle (West), 400056.

Modi (K. M.) & Co., 24-B, Hamam St., Raja Bahadur Comp., Fort, 400001.

Modi (S. R.) & Co., Ladiwala's Bungalow, 79, Kurla Rd., Andheri (East), 400069.

Mody & Co., 111/113, Main Cloth Market, Vithalwadi, Kalbadevi Rd., 400002.

Mody (A. R.) & Co., B-A, Bhagirathi Bhawan, Dadyseth Rd., Near Temple, 400007.

Mody (D. R.) & Co., Ladiwala's Bungalow No. 1, Govt. Scheme Rd., Andheri, 400058.

Mody (F. K.) & Co., Banu Mansion, 16/1, N. Sukhia St., Fort, 400001.

Mody (H. M.) & Co., 14, Indus Court, 'A' Rd., Churchgate, 400020.

Mody (R. R.) & Co., 6, Bell Lane, Fort, 400001.

Mody (T. J.) & Co., Jyoti Mahal, 13, Sleater Rd., 400007.

Mogrelia (J. N.) & Co., 209, Frere Rd., Fort, 400001.

Mogul (S.I.) & Co., G-10, Pannalal Terrace, Grant Rd., 400007.

Mohan (N.) & Co., Gandhi Mansion, New Silk Bazar, P. B. 2636, 400002.

Mohan Varma & Co., 10, Vasundhra, B. Desai Rd., 400026.

Mohile (S. B.) & Co., A-8, Sahitya Sahawar, Bandra (East), 400051.

Mohnot (P. M.) & Co., 208, Kakad Market, 306, Kalbadevi Rd., 400002.

Mohoni (M. G.) & Co., 17/19, Wadia Bldg., Financial Observers, Dalal St., 400001.

Momaya (V. R.) & Co., 334, N. Natha St., Katha Bazar, 400009.

Morolia (G. H.) & Co., 130/32, Zaveri Bazar, 400002.

Morparia & Co., 398A, Old Halai Bhatia Mahajanwadi, Kalbadevi Rd., 400002.

Motafram (J. S.) & Co., F-56, Cusrow Baug, Colaba Causeway, Fort, 400001.

Motani (S. K.) & Co., 15-F, Lohana Niwas, Burroughs Lane, 400004.

Motiwalla (H. N.) & Co., 510, Churchgate Chamber, 5, New Marine Lines, 400020.

Motta & Co., Indian Globe Chambers, 142, Walchand Hirachand Marg, 400001.

Mukadam Musani & Co., 43/29, Rajana Bldg., Dr. Maheshwari Rd., 400009.

Mukadum (M. B.) & Co., 22-D, Parsee Bazar St., Fort, 400001.

Mukti Hebra & Co., "Baiju", Goregaon (West), 400062.

Mukund M. Shah & Co., Raja Bansilal Bldg., 22-B, Apollo St., Fort, 400001.

Mullaji (T. M.) & Co., 92, Sarang St., 400003.

Mundada & Co., 97/2, N. Dhruva St., 400003.

Muni (N. K.) & Co., Botawalla Bldg., 11, Horniman Circle, Fort, 400001.

Munim (Y. F.) & Co., 179(A), A. Rehman St., 400003.

Munot & Munot, Guru Krupa, 73, Sion (East), 400022.

Murthy (M. K.) & Co., C5/15, Kripa Nagar, Irla, Vile-Parle (West), 400056.

Murty (K. L.) & Co., B39/363, Gandhi Nagar, Bandra (East), 400051.

Mazumdar (S. D.) & Co., Abubaker Mansion, Colaba Causeway, 400005.

Nagda (B. P.) & Co., 116, Kessonji Naik Rd., 400009.

Nagindas & Maneklal, Maldon House, 29, Marine Lines, Fort, 400001.

Nahar (S. K.) & Co., "Pearl Court", Daulat Nagar, Borivli, 400092.

Nahar (V. K.) & Co., 10-C, Gandhi Nagar, Bandra (East), 400051.

Naik (R. V.) & Co., 13, Noble Chambers, Parsi Bazar St., Fort, 400001.

Nanavati (P. J.) & Co., "Shiv Krupa", 44, Swastik Society, V. Mehta Marg, Vile-Parle (West), 400056.

Nanavati (R. K.) & Co., Kailash Nagar, 658, Tardeo Rd., 400007.

Nanda & Co., Back Bay View, 3, New Queen's Rd., 400004.

Nanubhai & Co., Jehangir Wadia Bldg., 51, M. Gandhi Rd., Fort, 400001.

Nanubhai Desai & Co., Sir Vithaldas Chambers, 16, Apollo St., Fort, 400001.

Narayan (T. V.) & Co., 42-A, College St., Opp. Portuguese Church, Dadar, 400028.

Narayana Aiyar & Co., 11, Elphinstone Circle, Bottawalla Bldg., Fort, 400001.

Narayan Iyer & Co., "Kumari", 14-A, Rd., Khar, 400052.

Narendra & Co., Zakeria Bldg., Musjid Bunder Rd., 400003.

Narendra N. Desai & Co., Bharat House, Apollo St., Fort, 400001.

Narendra Parikh & Co., 68, Hindu Friends Society, 1st Rd., Jogeshwari, 400060.

Narendra Shah & Co., Bombay Mutual Chambers, 19-21, Hamam St., Fort, 400001.

Narkar & Co., 12, Rampart Row, Fort, 400001.

Natraja Iyer & Co., Bell Bldg., Sir P. Mehta Rd., 400001.

Nathan (T. S. V.) & Co., 10, Shankar Niwas, Bhandaji Cross Rd., Matunga, 400019.

Natubhai P. Patel & Co., Sambava Chambers, Sir P. Mehta Rd., Fort, 400001.

Natvarlal Vepari & Co., Jiji House, Raveline St., Fort, 400001.

Natverlal Shah & Co., Chhipi Chawl, 60/62, Shamset St., 400002.

Naushir M. Marfatia & Co., Alice Bldg., Dr. D. Naoroji Rd., Fort, 400001.

Navin & Co., Vidya Villa No. 1, Old Nagardas Rd., Andheri (East), 400069.

Navin G. Shah & Co., Rui Bldg., 395, Kalbadevi Rd., 400002.

Navin R. Shah & Co., 11/13, Mint Rd., Fort, 400001.

Navin Shah & Co., Mukund Villa, 1st Kasturba Cross Rd., Borivli (East), 400092.

Navroz A. Davar & Co., Motlibai Wadia House, 22-D, Parsi Bazar St., Fort, 400001.

Navsariwala (V. M.) & Co., 46/48, 3rd Marine St., Dhobitalao, 400002.

Nayak (S. G.) & Co., 94, S. Vivekanand Road, Irla, Vile Parle, 400056.

Nayak (S. S.) & Co., Botawalla Bldg., 7/10, Horniman Circle, 400001.

Neemuchwala (K. A.) & Co., 93, Jamli-Mohalla, 400003.

Nemi Chand Jain & Co., 45, Kamatipura, 4th Lane, 400008.

Nerurkar (D. G.) & Co., 27, Podar Chambers, Parsi Bazar St., Fort, 400001.

Newalkar (A. G.) & Co., 210/A, Shanti Kunj, Shivaji Park Rd., 400016.

Nikhil, M. Pandya & Co., 14, M. K. Saraswati Rd., Santa Cruz (West), 400054.

Niranjan & Co., 67, Nagdevi St., 400003.

Nirmal B. Jain & Co., 232, Dr. D. Naoroji Rd., Fort, 400001.

Nissim (M. M.) & Co., 28, Western India House, Sir P. Mehta Rd., 400001.

Niwas Aggarwal (R.) & Co., 44, Khattar Ali Lane, 400004.

Nooruddin (I. A.) & Co., 38, C.C.I. Chambers, D. Vacha Rd., Churchgate, 400020.

Otukar (S. T.) & Co., Parikh Mahal, 60, Ghoga St., Fort, 400001.

Oza (B. S.) & Co., 302, Neelkanth, 98, Marine Drive, Near Tarabhai Hall, 400001.

Pade (D. K.) & Co., 79A, Dev Karan Mansion, S. Gandhi Marg, 400002.

Padliya (J. K.) & Co., 82, D. S. Agiari Lane, 400002.

Padmakar G. Joshi & Co., Hari Ratan Co-op. Housing Society Ltd., Bangur Nagar, M. Gandhi Rd., Goregaon (West), 400062.

Padmanabh Joshi & Co., 18/6, Shanti Nagar, Sane Guruji Rd., 400011.

Pahade (V. L.) & Co., 25/2, New Sarvottam Co-op. Housing Society, S. Vivekanand Rd., Andheri, 400058.

Pai (M. G.) & Co., Warden House, Sir P. Mehta Rd., 400001.

Palekar (J. B.) & Co., Dol-Bin-Shir, 69-71, Ghoga St., Fort, 400001.

Palkar (M. G.) & Co., 147/6, "Sadhana", 14th Rd., Chembur, 400071.

Pancha (A. F.) & Co., Bharat House, 104, Apollo St., 400001.

Panchmatia (R. G.) & Co., 9, Alexander Rd., Gamdevi, 400007.

Pandya (J. J.) & Co., Fragrantto House, 10th Khetwadi, Main Rd., 400004.

Pandya (K. M.) & Co., Maheshwari Mansion, 34, Nepean Sea Rd., 400004.

Parakh & Jain, Ali Chambers, 'Dol-Bin-Shir', 69/71, Ghoga St., 400001.

Parekh (A.) & Co., 6, Nandan Van, Plot No. 269, Sion (West), 400022.

Parekh (B. C.) & Co., Puribai Smriti Bldg., 47, Mint Rd., 400001.

Parekh (B. M.) & Co., 130-132, Apollo St., Fort, 400001.

Parekh (C. G.) & Co., 1/B, Contractor Bldg., Prarthana Samaj, Girgaum, 400004.

Parekh (D. J.) & Co., 1/B, Bani Kunj, M. Gandhi Rd., Kandivli (West), 400062.

Parekh (H. P.) & Co., "Maker Bhawan", 63, New Marine Lines, 400020.

Parekh (K. A.) & Co., 1st Fl., 23, Sadashiv St., Khadilkar Rd., Girgaum, 400004.

Parekh (L. M.) & Co., B-11, "Indralok", Old Nagardass Rd., Andheri (West), 400069.

Parekh (V.) & Associates, 35-37, Hamam St., Fort, 400001.

Parikh (A. N.) & Co., B-16, Viswa Villa, Ramchandra Lane, Malad (West), 400064.

Parikh & Shah, 19-21, Hamam St., Bombay Mutual Chambers, Fort, 400001.

Parikh (B. P.) & Co., 3/34, Kalyan Bldg., No. 7, Khadilkar Rd., 400002.

Parikh (L. K.) & Co., 13, Mayani Manor, Behind Union Bank, Andheri East, 400069.

Parikh (M. M.) & Co., B-15, Chandra Darshan, Akurli Rd., Kandivli (East), 400067.

Parikh (M. S.) & Co., Tamarind House, Tamarind Lane, Fort, 400001.

Parikh (P.) & Co., Janmabhoomi Chambers, Ballard Estate, Fort St., 400001.

Parikh (P. G.) & Co., 393, Girgaum Rd., 400002.

Parikh (P. J.) & Co., 169/73, Contractor Bldg. No. 2, New Charni Rd., 400004.

Parikh (R. K.) & Co., 5, Ranjan Villa, Shantinagar, Sardar V. Patel Rd., Borivli (West), 400092.

Parikh (S. R.) & Co., Podar Chambers, 109, Parsi Bazar St., Fort, 400001.

Parikh (V. P.) & Co., 136, Samrat Ashok Society, Winter Rd., Malabar Hill, 400006.

Parmanand (N.) & Co., 503, Jolly Bhawan, 10, New Marine Lines, 400020.

Pasad (J. D.) & Co., 9/221, Bora Bazar St., Fort, 400001.

Pasad (V. D.) & Co., "Madhyam Kunj", J. Nehru Rd., Mulund (West), 400080.

Pashvir Khona & Co., Co-op. Insurance Bldg., Sir P. Mehta Rd., Fort, 400001.

Patel (A. C.) & Co., 11, Ashok, Adenwala Rd., 400019.

Patel & Co., Unique House, 25, Parsee Bazar St., Fort, 400001.

Patel & Deodhar, Court House, Dhobi Talao, 400002.

Patel & Kapadia, Tulsidas Mansions, V. Patel Rd., 400004.

Patel & Pithawala, Bombay Mutual Chambers, 19-21, Hamam St., Fort, 400001.

Patel (B. D.) & Co., "Saket", 82-B, Saraswati Rd., Santa Cruz (West), 400054.

Patel (B. G.) & Co., Rajniketan, Ridge Rd., 400006.

Patel (B. H.) & Co., Kaka Bldg., 505, Kalbadevi Rd., 400002.

Patel (C. M.) & Co., Yusuf Bldg., Churchgate St., 400001.

Patel (C. R.) & Co., Dongree Bldg., 6, Dubash Lane, Vitalbhai Patel Rd., 400009.

Patel (D. P.) & Co., Shantawadi, Marwadi Bldg., Versova Rd., Andheri (West), 400058.

Patel (H. J.) & Co., 487, Sardar V. Patel Rd., 400004.

Patel (H. R.) & Co., D-52, Gujarati Society, Nehru Rd., Vile Parle (East), 400057.

Patel (K. B.) & Co., 314, Joy House, 12, Cross Road, Jawahar Nagar, Goregaon (West), 400062.

Patel (M. B.) & Co., 101, M. Gandhi Rd., Opp. Clock Tower, Fort, 400001.

Patel (M. F.) & Co., Mohd. Amin Manzil, 3, M. Patel Agiary Lane, Grant Road, 400007.

Patel (M. G.) & Co., Central Bank Bldg., M. Gandhi Rd., Fort, 400001.

Patel (M. M.) & Co., 7, Maheshwar Darshan No. 2, S. Vivekanand Rd., Santa Cruz (West), 400054.

Patel (N. N.) & Co., Kalbadevi Chambers, 7, Dady Sheth Agiary Lane, 400002.

Patel (N. R.) & Co., 120, Commerce House, 140, Medows St., 400001.

Patel (P. C.) & Co., 25, Apana Ghat, S. Bhagat Singh Rd., Colaba, 400005.

Patel (P. P.) & Co., Ganpat Bldg., 116, K. Naik Rd., 400009.

Patel (R. A.) & Co., "Sahakar", 31, B-Road, Churchgate, 400001.

Patel (R. B.) & Co., 25, Parsi Bazar St., Fort, 400001.

Patel (R. C.) & Co., B/8A, Madhu Park, 1st Carter Rd., Borivli (East), 400092.

Patel (S. M.) & Co., Behramji Mansion, Sir P. Mehta Rd., Fort, 400001.

Patel (V. N.) & Co., 4, Ishkripa, 61, Morbaug Cross Rd., Dadar, 400014.

Patel (V. S.) & Co., 84, Ghoga St., Hutatma Chawk, Fort, 400001.

Patel Shah & Joshi, Sheel Chambers, 10, C. Patel St., Fort, Bombay, 400001.

Pathak (H. D.) & Co., 1/31, Kamal Mansion, Arthur Bunder Rd., Colaba, 400005.

Pathak (P. K.) & Co., 1513, Sion Trombay Rd., Suman Nagar, B-66, Chembur, 400071.

Patharkar (D. R.) & Co., 212/18, Bapu Balwant Bldg., Dr. Bhalerao Marg, Girgaum Rd., 400004.

Patkar & Co., "Prakash", 9, Shivaji Park, Rd. No. 3, 400028.

Patter & Patter, 7, Nirmala Niwas, Vincent Rd., 400019.

Patwardhan & Co., 51, Commercial Chambers, Masjid Bunder Rd., 400003.

Pavri & Dhruva, 75, Bank of Baroda Bldg., Palton Rd., 400001.

Pavri (P. F.) & Co., 241, Princess St., 400002.

Pavri (P. R.) & Co., Esmail Bldg., Dr. D. Naoroji Rd., Fort, 400001.

Pavri (S. E.) & Co., Jehangir Mansion, 1st Marine St., Fort, 400001.

Paymaster (D. N.) & Co., 'Court View', 126, Queen's Rd., Churchgate, 400020.

Phadke (R. S.) & Co., Bombay Mutual Chambers, 19-21, Hamam St., Fort, 400001.

Phatak (S. J.) & Co., "Shivkripa", Plot No. 268, Telang Rd., Matunga, 400019.

Phiroze B. Gandevia & Co., 13, A-1-A-2, New Bldgs., Khareghat Colony, Babulnath Rd., 400007.

Phiroze Gandhi & Associates, 639, Rati Manzil, M. Joshi Rd., Dadar, 400014.

Piyoo & Co., Aga Khan Bldg., Dalal St., 400001.

Piyush Dalal & Co., 6/A, Sambava Chambers, Sir P. Mehta Rd., Fort, 400001.

Pokle (C. B.) & Co., Bahadoor Manzil, Corner of S. A. Brelvi Rd. & Store Lane, Fort, 400001.

Polishwala (N. A.) & Co., Victoria Bldg., Parsi Bazar St., Fort, 400001.

Poonawalla (P. M.) & Co., Cama Bldg., M. F. Cama Rd., Andheri (West), 400058.

Popatlal J. Shah & Co., 7/107, Azad Nagar, Jaiprakash Rd., Andheri (West), 400058.

Porwal & Co., 20/79, Yeshwant Nagar, Goregaon (West), 400062.

Porwal (M. L.) & Co., 147, Kika St., 400004.

Prabhu & Prabhu, 17-C, C. Patel St., Fort, 400001.

Prabhudesai (R. A.) & Co., 18, Laxmi Jogeshwari Co-op. Housing Society, Jogeshwari (East), 400060.

Pradhan (R. L.) & Co., Commissariat Bldg., Dr. D. Naoroji Rd., Fort, 400001.

Pradhan (S. A.) & Co., B7/54, M.I.G. Colony, Bandra (East), 400051.

Pradhan (S. M.) & Co., Madhav-Niwas, Gokhale Rd., Mulund (East), 400081.

Prakash H. Ponde & Co., 44, Jyoti Sadan, 28th Rd., Off Turner Rd., Bandra, 400050.

Prakash S. Doshi & Co., 22, Gurukul Chambers, 187-189, Mumbadevi Rd., 400002.

Pramod C. Shah & Co., 20, Dev Prakash, 35, Chowpatty Sea Face, 400007.

Prasad (K.) & Co., 306, Kalbadevi Rd., 400002.

Prashant Amin & Co., Swashray, 47, Juhu Cross Lane, Andheri (West), 400058.

Pratap B. Sheth & Co., 177, Bazargate St., Fort, 400001.

Pravinchandra & Co., "Niranjan", 99, Marine Drive, 400002.

Pravin Khona & Co., Patva Chambers, 104-108, Clive Rd., 400009.

Pravin P. Shah & Co., 360, Kalbadevi Rd., 400002.

Prayaga & Co., 25, Jawahar Sadan, 21st Rd., Chembur, 400071.

Prithviraj Shah & Co., 158/160, N. Dhuru St., 400003.

Punam Singavi & Co., 11, Botawala Bldg., Horniman Circle, 400001.

Purandare (H. S.) & Co., 4/32, Navjivan Co-op. Housing Society, Bhadkamkar Marg, Bombay Central, 400008.

Puri (A. K.) & Co., 430, Arun Chambers, Tardeo, 400034.

Purohit (S. D.) & Co., Nawab Bldg., 327, Dr. D. Naoroji Rd., Fort, 400001.

Pushkar M. Mehta & Co., 282, Haji Kassma Bldg., A. Rehman St., 400003.

Radheshyam Singhania & Co., Borivli Hosiery Mills Comp., Jambl. Galli, Borivli, 400092.

Raichura (P. J.) & Co., 71-72, Ashok Chambers, Broach St., 400009.

Raichura (V. D.) & Co., 9/11, Jamboolwadi, Near Dhobi Talao, Kalbadevi Rd., 400002.

Raiji (N. M.) & Co., Universal Insurance Bldg., Sir P. Mehta Rd., 400001.

Raiyani (G.) & Co., Court Chambers, Office No. A-1, 35, New Marine Lines, 400020.

Raiyani & Co., 21, Bank of Baroda Bldg., Palton Rd., 400001.

Raiyani (D. V.) & Co., 9, Phalguni Co-op. Housing Society Ltd., Gazdar Scheme, Sarojini Naidu Rd., Santa Cruz (West), 400054.

Rajadhyaksha (S. J.) & Co., Narsinha Niwas, 126, Versova Rd., Andheri, 400058.

Rajanikant Shah & Co., 402, E-2, Bharatnagar, 342, Grant Rd., 400007.

Rajarshi (D. K.) & Co., Bombay Mutual Chambers, 19-21, Hamam St., 400001.

Rajen Desai & Co., "Hemant", Kalyan-Gram Society, V. Patel Rd., Andheri (West), 400058.

Rajendra & Co., 119, Lohar Chawl, Maskati Mahal, 400003.

Rajendra Mehta & Co., Jubilee Mansion, 352, Sardar V. Patel Rd., 400004.

Rajesh Chikhlia & Co., 15th Kaushik, 67, Vallabhnagar Society, Vile Parle (West), 400006.

Rajkotia (V. R.) & Co., N. M. Gandhi's House, Maneklal Estate, Agra Rd., Ghatkopar, 400077.

Rajmal Jain & Co., G-1, Anand Bhawan, 45, Bajaj Rd., Vile Parle (West), 400056.

Rajni L. Wankawala & Co., 'Ajanta', 3rd Rd., Near Issardas Dharamshala, Khar (West), 400052.

Raman K. Seth & Co., 311, Churchgate Chambers, New Marine Lines, 400020.

Rama Rao & Co., 303, Lotus House, 33-A, New Marine Lines, 400002.

Rambhia (S. K.) & Co., 8, Chheda Bhavan, 98, Surat St., 400009.

Ramesh C. Shah & Co., Venkatesh Chambers, Prescott Rd., Fort, 400001.

Ramesh Desai & Co., Western India House, Sir P. Mehta Rd., Fort, 400001.

Ramesh H. Doshi & Co., Haroon House, 294, P. Nariman St., Fort, 400001.

Ramesh J. Paymaster & Co., Examiner Press Bldg., 35, Dalal St., Fort, 400001.

Ramesh K. Shah & Co., 78/82, Champa Gally, 400002.

Ramesh Shah & Co., 121, M. Gandhi Rd., Fort, 400001.

Ramniwas Pitti & Co., 19, Pitti Bhawan, Telgali, Naithal Wadi, 400002.

Ramu Mahadevan & Co., 28, Western India House, Sir P. Mehta, Rd., Fort, 400001.

Ranade (D. C.) & Co., 194-F, Girgaum, Gaiwadi, 400004.

Ranawat (G. C.) & Co., 505, Arun Chamber, Tardeo Rd., 400034.

Ranina (D. J.) & Co., "Prince's Chamber's", Colaba Rd., 400005.

Ranina (H. P.) & Co., Commonwealth, 181, Backbay Recl., 400020.

Rao Ashok, 12 — Lalit, Wodehouse Rd., 400001.

Rao & Swami, 62, Bombay Mutual Bldg., Dr. D. Naoroji Rd., Fort, 400001.

Rao (A. S.) & Co., 2/579, Dalip Darshan, Jam-e-Jamshed Rd., Matunga, 400019.

Rao (M. R.) & Co., 59/9, Mustafa Bldg., Sir P. Mehta Rd., Fort, 400001.

Rao (N. V. K.) & Co., 47, Alankar, Behind Don Bosco, Matunga, 400019.

Rao (R. A. P.) & Co., Indian Globe Chambers, Fort St., Bori Bunder, 400001.

Rasania (S. B.) & Co., Renu Co-op. Housing Society Ltd., Near Gujarathi Mandal, Shradhanand Rd., Vile-Parle (East), 400057.

Rashmikant Parikh & Co., 2, Kailash Kutir, Opp. Rajawadi Garden, Ghatkopar (East), 400077.

Rashmi P. Sheth & Co., 9, Kailas Sadan, 39, Bajaj Rd., Vile Parle (West), 400056.

Rashmi Zaveri & Co., Karim Chambers, 42, Hamam St., Fort, 400001.

Rasiklal & Co., Dadam Wadi, 343, Kalbadevi Rd., 400002.

Ratan N. Karanjia & Co., Yusuf Mansion, Khetwadi Back Rd., 400004.

Ratan S. Mama & Co., 2-C, Vulcan Insurance Bldg., 77, V. Nariman Rd., 400020.

Ratanghayra (B. V.) & Co., 261/63, Thakurdwar Rd., 400002.

Rathore (K. L.) & Co., 65, New Hanuman Lane, 400052.

Rathore (P. U.) & Co., Mahavir Nagar Housing Co-op. Society Ltd., Factory Lane, Tilak Rd., Borivli (West), 400092.

Ratilal Patel & Co., 7-C, Morarji Velji Estate, Kolbhat Lane, 400002.

Raval (P. R.) & Co., 2/4, Vithoba Lane, Vithal Wadi, Kalbadevi Rd., 400002.

Ravasia (K. A.) & Co., Parsi Colony Rd. No. 4, Dadar, 400014.

Ravi Shenoy & Co., 221, S. Vivekanand Rd., Andheri (West), 400058.

Rege (S. R.) & Co., Mistry Mansion, 107, M. Gandhi Rd., Fort, 400001.

Reporter (P. M.) & Co., Podar Chambers, Parsi Bazar St., Fort, 400001.

Reshamwala & Co., R/12, Dr. Jumani's New Chawl, Jitendra Rd., Malad (East), 400064.

Reshamwala (R. C.) & Co., 'Ararat', 89, Medows St., Fort, 400001.

Roedert (J.) & Co., 5, Sundardas Bldg., Sankli St., Byculla, 400008.

Rohit Shah & Co., Kitab Mahal, 192, Dr. D. Naoroji Rd., 400001.

Rumi J. Masalawala & Co., Railway Officer's Quarters, Bombay Central, 400008.

Ruparel (A. J.) & Co., 4, Kanji Mistry Chawl, Ram Bhawan, Rajawadi, 400077.

Ruparelia (P. K.) & Co., 145, Modi St., 400001.

Rusi J. Daruwala & Co., 511-C, Daver Bldg., Adenwalla Rd., Matunga, 400019.

Rustom R. P. Dalal & Co., Plot No. 5, Sleater Rd., 400007.

Rustomji N. Mehta & Co., 35-37, Hamam St., Fort, 400001.

Ruvala (R. A.) & Co., "Shanti Niketan", 21, V. Gandhi Rd., Gamdevi, 400007.

Sachdev (D. R.) & Co., 55, Commercial Chambers, Masjid Bunder Rd., 400003.

Sadhwani (G. P.) & Co., Mulund Hill View Co-op. Housing Society Ltd., Dr. R. Prasad Rd., Mulund (West), 400080.

Sagar Jangid & Co., Nawalo Bldg., 327, Dr. D. Naoroji Rd., 400001.

Sahajwani (R. C.) & Co., Shyam Kutir Co-op. Housing Society Ltd., 629, Khar Pali Rd., 400052.

Saiya (N. R.) & Co., 10, Velani Bhuvan, Shevaram Lalwani Rd., Mulund (West), 400080.

Saiya (V. G.) & Co., 9/4, Malharrao Wadi, Kalbadevi Rd., 400002.

Salaskar (G. P.) & Co., 511, Churchgate Chambers, New Marine Lines, 400001.

Samant (N. D.) & Co., 133, Jeshtaram Baug, Dr. Ambedkar Rd., Dadar, 400014.

Sampat & Mehta, 506, Sir Vithaldas Chambers, 16, Apollo St., 400001.

Sampat (J. H.) & Co., Behramji Mansion, Sir P. Mehta Rd., Fort, 400001.

Sampat (N. R.) & Co., 43-B, Ganesh Prasad, Sleater Rd., 400001.

Sampat (P. P.) & Co., Maheshwar Rd., Near Santa Cruz Rly. Stn., 400054.

Sampat (R. V.) & Co., 85, Bora Bazar St., Fort, 400001.

Sampat (V. P.) & Co., Meghdeep, Swastik Society, Juhu-Vile Parle Scheme, Circular Rd., 400056.

Sampat Kumar (R.) & Co., 25/206, Shiv Mahal, Sion, 400022.

Samtani (P. M.) & Co., 18, New Pushpa Milan, 67, Worli Hills, Worli, 400018.

Sanat Jatania & Co., Morarji Velji's Old Post Office Bldg., Kolbhat Lane, Kalbadevi Rd., 400002.

Sancheti (J. M.) & Co., 55-A, Latif House, Carnac Bunder, 400009.

Sangani & Co., Jeevan Udyog, Dr. D. Naoroji Rd., 400001.

Sangani (K. S.) & Co., 63, Kolbhat Lane, Kalbadevi Rd., 400002.

Sangani (M. N.) & Co., 27, Kolbhat Lane, Kalbadevi, 400002.

Sanghavi & Co., 48, Commercial Chambers, Masjid Bunder Rd., 400003.

Sanghavi (C. N.) & Co., Court Chambers, 35, New Marine Lines, 400020.

Sanghavi (J. B.) & Co., 13, N. Dhuru St., 400003.

Sanghavi (M. V.) & Co., Marwadi Chawl, 58A, M. Gandhi Rd., Ghatkopar, 400077.

Sanghavi (R. S.) & Co., Rajaramka Bhuvan, 160, Kalbadevi Rd., 400002.

Sanghvi (B. B.) & Co., 176, S. Memon St., 400002.

Sanghvi (J. V.) & Co., B-1, Bhaveshwarnagar, No. 4, Tilak Rd., 400077.

Sanghvi (P. K.) & Co., 278, Samuel St., 400003.

Sanghvi (T. M.) & Co., 13, Bhatwadi Cross Lane, Opera House, 400004.

Sankar (P. N. V.) & Co., 4-192, Pushpa Kunj, Station Rd., Wadala, 400031.

Sankar Aiyar (V.) & Co., 3-A, Sindhu House, Nanabhoy Lane, Flora Fountain, 400001.

Santosh Desai & Co., 69-E, Gautam Nagar, Tilak Rd., Borivli (West), 400092.

Saraf (C. L.) & Co., Singhaniwadi, 187, D. Agiary Lane, 400002.

Saraf (P. D.) & Co., Niranjan Bldg., A/B, 99, Marine Drive, 400002.

Saraiya (M. C.) & Co., Bombay Mutual Chambers, Hamam St., Fort, 400001.

Saraogi (O. P.) & Co., 29/488, Adarsh Nagar, Prabhadevi 400025.

Saraswat (R. K.) & Co., 6-A, Asian Assurance Quarters, Manmala Tank Rd., Matunga (West), 400016.
Satish Gupta & Co., 201, Jolly Bhawan, 10, New Marine Lines, 400020.
Satya Prakash & Co., Crescent Chambers, Tamarind St., Fort, 400001.
Satyendra Vepari & Co., 52, New Stock Exchange Bldg., Apollo St., 400001.
Sawe & Co., 13/A-13, K. Khadye Marg, Hajiali, Mahalaxmi, 400034.
Sayed (A. S.) & Co., Enimco Perfumers, 17-19, New Bangalipura St., 400003.
Selarka & Doshi, 113-A, Churchgate Chambers, 5, New Marine Lines, 400020.
Selarka & Co., Motilal Mansion, 8, Bhawdaji Rd., Matunga, 400019.
Seth (R. K.) & Co., Dewarka Ashish, 8, Jambulwadi Kalbadevi Rd., 400002.
Sethna (N. M.) & Co., Motlibai House, 22-D, Parsi Bazar, Fort, 400001.
Sethy & Co., Navinchandra Bldg., 78, Vithalwadi, 400002.
Sevantilal Shah & Co., 314, Lotus House, 33-A, New Marine Lines, 400001.
Shabbir & Co., 104, Dhaboo St., 400003.
Shah (A. J.) & Co., Fort Chambers, C-Block 65, Tamarind Lane, Fort, 400001.
Shah (A. M.) & Co., Mansur Bldg., 98, Princess St., 400002.
Shah & Associates, Chhotalal Bhuvan, 418, Kalbadevi Rd., 400002.
Shah & Co., Maker Bhavan No. 2, 18, New Marine Lines, 400020.
Shah & Kanji, 100-04, Corner Bell Lane, Medows St., 400001.
Shah & Morzaria, 214/16, Dr. C. Hormusji St., Dhobi Talao, 400002.
Shah & Shah, Yusuf Bldgs., V. Nariman Rd., Fort, 400001.
Shah & Shanghvi, 94, Zaveri Bazar, 400002.
Shah & Sheth, 406, Steel Centre, Ahmedabad St., Carnac Bunder, 400009.
Shah & Taparia, 123, S. Memon St., 400002.
Shah (B. G.) & Co., Bhagwan Bhuvan, 196, Samuel St., 400009.
Shah (B. K.) & Co., Khira Bhavan, Chowpatty, 400007.
Shah (B. M.) & Co., 305, Navin Asha, 126, Phalke Rd., Dadar (East), 400014.
Shah (B. S.) & Co., Tamarind House, 36, Tamarind Lane, Fort, 400001.
Shah (C. S.) & Co., 75/2, Old Mody St., Vijay Bhawan, Fort, 400001.
Shah (D. C.) & Co., 3/74, Maheshwar Jyot, R. B. Mehta Rd., Ghatkopar, 400077.
Shah (D. L.) & Co., Central Bldg. No. 2, New Silk Bazar, 400002.
Shah (D. N.) & Co., Jain Colony, G. M. Jain Hostel, Elphinstone Rd., 400013.
Shah (G. S.) & Co., Rustom Bldg., 29, V. Nariman Rd., Fort, 400001.
Shah (H. C.) & Co., Yusuf Bldg., V. Nariman, Rd., Fort, 400001.
Shah (H. S.) & Co., 1/3, Gola Lane, Hornby Rd., Fort, 400001.
Shah (H. V.) & Co., 23, Hamam St., Fort, 400001.
Shah (J. B.), Navyugnagar, Forjett Hill Rd., 400026.
Shah (J. F.) & Co., Bharat House, 104, Apollo St., 400001.
Shah (J. H.) & Co., 27, Bhat Bazar, Masjid Bunder, 400009.
Shah (J. J.) & Co., Fazal Mansion, 8-14, A. Rehman St., 400003.
Shah (J. K.) & Co., 71/73, Nagdevi St., 400003.
Shah (J. M.) & Co., 23, Hamam St., Fort, 400001.
Shah (J. V.) & Co., Tardeo Air Conditioned Market, Tardeo Rd., 400034.
Shah (K. C.) & Co., 157/9, J. Nagar, Goregaon, 400062.
Shah (K. D.) & Co., 14/16, Chewel Wadi, Kalbadevi Rd., Kolbhat Lane, 400002.
Shah (K. G.) & Co., Anant Bldg., 217, Princess St., 400002.
Shah (K. N.) & Co., Bombay Housing Board Bldgs., Near Rly. Stn., Andheri (East), 400069.
Shah (K. R.) & Co., 11, Bruce St., Fort, 400001.
Shah (K. T.) & Co., Navyug Nagar, Forjett Hill Road, 400026.
Shah (L. T.) & Co., 8, Kolbhat Lane, Kalbadevi, 400002.
Shah (M. A.) & Co., Dawawala Bldg., 137/3, D. S. Agiary Lane, 400002.
Shah (M. J.) & Co., 270, J. Nagar, 5th Ganga Niwas, Goregaon (West), 400062.
Shah (M. M.) & Co., 4/1, Harismruti, Viswabharti Co-op. Housing Society, Andheri (West), 400058.
Shah (N. B.) & Co., Plot No. 209, Sion (West), 400022.
Shah (N. C.) & Co., 31, Second Bhoiwada, Bhuleshwar, 400002.
Shah (N. G.) & Co., 11/3, Mani Villa, Gulab Baug, K. Desai Rd., Vile Parle (West), 400056.
Shah (N. J.) & Co., 5, Rekhi Bhawan, L. Napoo. Rd., Matunga, 400019.
Shah (N. L.) & Co., 123/25, Zaveri Bazar, 400002.
Shah (N. M.) & Co., Trade Centre, Forbes St., Fort, 400001.
Shah (N. V.) & Co., 7, Gola Lane, Fort, 400001.
Shah (P.) & Co., 296-298, Kalbadevi Rd., 400002.
Shah (P. H.) & Co., Mangal Bhawan, Manchhubhai Rd., Malad, 400064.
Shah (P. J.) & Co., Noble Chambers, Parsi Bazar St., Fort, 400001.
Shah (R. A.) & Co., 24, Makwana Nagar, 3rd Carter Rd., Borivli (East), 400066.
Shah (R. B.) & Co., 32, Apollo St., Raibahadur Mansion, 400001.
Shah (R. D.) & Co., Satya Kripa, Hansotia Rd., Cama Lane, Ghatkopar (West), 400086.
Shah (R. P.) & Co., 16, Custom House Rd., Fort, 400001.
Shah (S. C.) & Co., "Harikripa", S. Vivekanand Rd., Santa Cruz (West), 400054.
Shah (S. M.) & Co., Shahviri Bldg., 37-41, Picket Rd., Kalbadevi, 400002.
Shah (S. N.) & Co., Yeshoda Niwas No. 8, Rajawadi, Ghatkopar, 400077.
Shah (S. P.) & Co., Raja Bahadur Comp., 24-B, Hamam St., Fort, 400001.
Shah (V. B.) & Co., 369-A, S. Vivekanand Rd., Vile Parle (West), 400056.
Shah (V. C.) & Co., Parekh Bldg., 126, Khadilkar Rd., 400004.
Shah (V. H.) & Co., Rekha-2, 46, Ridge Rd., 400006.
Shah (V. M.) & Co., Chheda Sadan, 115, Churchgate Recl., 400020.
Shah (V. P.) & Co., 65, Apollo Street, Fort, 400001.

Shah (V. R.) & Co., "Gautam", 101/1, Tilak Rd., Ghatkopar (East), 400077.

Shah Desai & Co., 22, Apollo St., Fort, 400001.

Shah Ghia & Co., Palkiwala Bldg., 22/24, 1st Dhobi Talao Lane, 400002.

Shah Kalathia & Co., Jeevan Vihar, 75, Apollo St., Fort, 400001.

Shah Mehta & Co., Bombay Mutual Chambers, 19/21, Hamam St., Fort, 400001.

Shah Parikh & Co., 'Ararat', 89, Medows St., Fort, 400001.

Shah Patni & Co., Chhotalal Bhawan, 418, Kalbadevi Rd., 400002.

Shah, Shah & Co., 14, D. Bhagatsing Rd., Vile Parle (West), 400056.

Shailesh N. Thakkar & Co., 360, Kalbadevi Rd., Opp. Ramwadi P. O., 400002.

Shailesh Parikh & Co., 6, Chheda Bhuvan, Carter Road 8, Borivli (East), 400092.

Shakir & Co., 130, A. Rehman St., 400002.

Shanbhag (R. N.) & Co., Krishna Udyog Bhawan, 15, Nariman Rd., Prabha Devi, 400025.

Shanghavi (K.) & Co., Rehman Bldg., 24, V. Nariman Rd., Fort, 400001.

Shankarlal Jain & Associates, 59, Forbes St., Fort, 400001.

Shankar R. Tamhane & Co., "Suryodaya", Ranade Rd., Extension, Shivaji Park Area, Dadar, 400014.

Shantilal & Co., 33, Kalbadevi Rd., Opp. Swadeshi Market, 400002.

Shantilal Shah & Co., 11, Bruce St., 400001.

Shapoor A. Irani & Co., Station Terrace, Sleater Rd., 400007.

Sharad R. Dalal & Co., 919, Prasad Chambers, Swadeshi Mills Comp., Opera House, 400004.

Sharma (A. P.) & Co., Dinesh Bhavan, 115, Vallabhbaug X Lane, Ghatkopar, 400077.

Sharma (M. L.) & Co., 2, Horizon View, 138, Foreshore Rd., 400001.

Sharma (R. P.) & Co., Krishna Press Bungalow, 156, Jakaria Bunder Rd., Sewree, 400015.

Sharma (S.) & Co., 79, Medows St., Fort, 400001.

Sharoff (C. D.) & Co., 14/3, Sunder Niketan, Subash Lane, Kandivli (West), 400067.

Sharp & Tannan, Bank of Baroda Bldg., Apollo St., 400001.

Shashi Kant Jain & Co., Army & Navy Bldg., Fort, 400001.

Shashikant M. Shah & Co., 19, Gopal Sadan "A", Dutt Mandir Rd., Malad (East), 400064.

Shashi (S.) & Co., 7, Sai Sadan, Liberty Garden, Malad, 400064.

Shekhar & Co., 4, Jamnadas Mansion, L. N. Lane, Matunga, C. Rly., 400019.

Shende (M. S.) & Co., Bldg. No. C-7, Suman Co-op. Housing Society Ltd., Sion Trombay Rd., Chembur, 400071.

Shenoy & Co., Poonam Housing Co-op. Society, Sitladevi Temple Rd., Mahim, 400016.

Shenoy (P. R.) & Co., No. 90, Anand Dham, Plot No. 25, Prabhat Colony Rd., Santa Cruz (East), 400055.

Shesh Mal T. Tokarawat & Co., 10 Mahadev-Bhuvan, J. M. St., Parel, 400012.

Sheth (B. S.) & Co., 80, Dr. M. B. Velkar St., Chira Bazar, 400002.

Sheth (D. M.) & Co., Archana Bldg., Tagore Rd., Santa Cruz, (West), 400054.

Sheth (H. C.) & Co., Bharat House, 104 Apollo St., Fort, 400001.

Sheth (J. K.) & Co., New J. Dadabhai Cross Rd. No. 1, Vile Parle (West), 400056.

Sheth (K. R.) & Co., 57, Ghoga St., Fort, 400001.

Sheth (P.) & Co., 'Parijat', 95, Marine Drive, 400002.

Sheth (R. H.) & Co., Navrang, Peddar Rd., 400026.

Sheth (R. M.) & Co., 404, Commerce House, 140, Medows St., Fort, 400001.

Sheth (R. V.) & Co., 38, M. Gandhi Rd., Ghatkopar, 400077.

Sheth (S. M.) & Co., 'G' Block, 150/152, S. Vivekanand Rd., Andheri, 400058.

Shetti (K. A.) & Co., Hari Bhuwan, Sion Trombay Rd., Opp. Vijay Theatre, Chembur, 400071.

Shetti (M. V.) & Co., Hira House, 302-C, Bangad Wadi, V. Patel Rd., Prarthana Samaj, Girgaum, 400004.

Shetty (G. B.) & Co., 37, Ready Money Terrace, Worli Naka, 400018.

Shetty (Y. R.) & Co., Bombay Mutual Chambers, 19, Hamam St., Fort, 400001.

Shial & Co., 25-A, Noble Chambers, Parsee Bazar St., Fort, 400001.

Shivaux Mistry & Co., 17/G, C. Patel Rd., Fort, 400001.

Shipchandler & Associates, 11, Bruce St., Fort, 400001.

Shipchandler & Co., Kalim Bldg., 142-44, A. Rehman St., 400003.

Shipchandler (M. M.) & Co., Daulatram Mansion, 4, Kittridge Rd., Colaba, 400005.

Shiv Ratan Jhawar & Co., Commissariat Bldg., 231, Dr. D. Naoroji, Rd., Fort, 400001.

Shrinivas S. Nadkarni & Co., Khanna Construction House, 44, M. Abdul Gaffar Rd., Worli, 400018.

Shrish H. Patel & Co., Tulsidas Mansion, V. P. Rd., 400004.

Suroff & Co., 'Sandip Sadan', Paranjpe 'A' Scheme, 2nd Rd., Vile Parle (East), 400057.

Shroff (B. N.) & Co., Malegaumwala & Boyce Bldg., Katrak Rd., Wadala, 400031.

Shroff (B. R.) & Co., Jorawar Bhuvan, 93, Queen's Rd., 400020.

Shroff (D. D.) & Co., Stadium House, V. Nariman Rd., 400001.

Shroff (D. R.) & Co., 1, Rustom Baug, Victoria Rd., 400027.

Shroff (M. D.) & Co., 12-14, Bazar Gate, Fort, 400001.

Shroff (R. R.) & Co., 11, Sadashiv Lane, 400004.

Shukla (D. J.) & Co., New Great Insurance Bldg., Mez. F-1, 7, J. Tata Rd., 400020.

Shukla (D. N.) & Co., A-35/36, Pannalal Terraces, Grant Rd., 400007.

Shyam (K.) & Co., 361, Dr. D. Naoroji Rd., Fort, 400001.

Siamwalla (F. N.) & Co., 23, Hasami Chawl, Nagdevi St., 400003.

Singhania (B. J.) & Co., 5, Satyanarain Bhavan, 55, S. Vivekanand Rd., Borivli (West), 400092.

Singhi & Co., 25, Parsee Bazar St., Fort, 400001.

Singhvi (G. D.) & Co., 208, Kakad Market, 306, Kalbadevi Rd., 400002.

Sodawaterwala (E. D.) & Co., Agakhan Bldgs., Dalal St., 400001.

Sodha (V. N.) & Co., 9, Shiv Chhaya, Adarsh Colony, Ramchandra Lane, Malad (West), 400064.

Solanky (S. H.) & Co., 212/18, Bapu Balwant Bldg., Dr. Bhalerao Marg, 400004.

Somaiya (J. P.) & Co., 5/578-A, Jitendra, J. Jamshed Rd., Matunga, 400019.

Soman (U. M.) & Co., E/3, Sahakar Niwas, B. S. Rd., Dadar, 400028.

Somani (B. L.) & Co., 30, Nirmal Niwas No. 2, Gowalia Tank Rd., 400026.

Somani (S. S.) & Co., Gandhinagar, MIG, C-10 (77), Bandra (East), 400051.

Soni (P. J.) & Co., 14/16, Chewal Wadi. Kolbhat Lane, Kalbadevi Rd., 400002.

Soni (T. R.) & Co., 101, Steel Centre, Sant Tukaram Rd., 400009.

Soni Vora & Co., 111-A, M. Gandhi Rd., Opp. Rajabai Tower, Fort, 400001.

Soonawalla (B. D.) & Co., Umrigar Bldg., 764-E, Opp. Tram Depot, Dadar, 400014.

Sopariwalla (C. H.) & Co., 8, Hamam St., Fort, 400001.

Sorab P. Pocha & Co., 41-45, Medows St., Fort, 400001.

Sorab S. Engineer & Co., Ismail Bldg., 381, Dr. D. Naoroji Rd., Fort, 400001.

Subramanian & Co., Atharnas, Sion, 400022.

Sudit K. Parekh & Co., Cama Bldg., 4226, Dalal St., Fort, 400001.

Suglatwala (M. M.) & Co., 165, Masjid Bunder Rd., 400003.

Sukhadia (D. L.) & Co., Hamam House, Hamam St., Fort, 400001.

Sukhlecha (G. S.) & Co., 512, Prasad Chambers, Swadeshi Mills Comp., Opera House, 400004.

Sumant M. Shah & Co., Viyog Sadan B, S. M. Rd., Kandivli (West), 400067.

Sundararajan (T. G.) & Co., 601, C.I.B.A. Research Colony, Goregaon (East), 400063.

Sundarlal & Co., 59, Forbes St., Fort, 400001.

Sunder Agrawal & Co., 407-A, Kalbadevi Rd., 400002.

Sunil P. Gupta & Co., 207, Kalbadevi Rd., 400002.

Sureka (B. K.) & Co., 43, V. V. Chandan St., Vadgadi, 400003.

Sureka (M. K.) & Co., 'Ram Kutir', 45/46, Hanuman Rd., Vile Parle (East), 400057.

Surendra & Co., Taj Bldg., 210, Dr. D. Naoroji Rd., 400001.

Surendra B. Gupta & Co., Air India Bldg., Nariman Point, 400020.

Surendra Bhatt & Co., 12, Noble Chambers, Parsee Bazar St., Fort, 400001.

Surendra P. Shah & Co., 608, Anand Bhuvan, V. Patel Rd., 400004.

Surendra Shah & Co., 304, Krishna Kunj, 143, Tulsi Pipe Rd., 400019.

Suresh A. Shah & Co., 497, Roop Raj, Sardar V. Patel Rd., 400004.

Suresh C. Maniar & Co., 439, Hasam Premji Bldg., Kalbadevi Rd., 400002.

Suresh Kapoor & Co., Lentin Chambers, 36, Dalal St., 400001.

Suresh M. Patel & Co., Green House, Green St., Fort, 400001.

Suri & Singh, 65-R, Linking Rd., Santa Cruz (West), 400054.

Suratia (B. C.) & Co., Lentin Chambers, Dalal St., Fort, 400001.

Suterwala (K. A.) Co., 20, Nagdevi St., Nakhuda Mohalla, 400003.

Talati & Co., Victoria Bldg., 27, Parsee Bazar St., 400001.

Talati (H. R.) & Co., "Ruban Apartments", Setalwad Rd., 30 off Nepean Sea Rd., 400006.

Talsania (D. H.) & Co., 509, Trade Centre, 130, Apollo St., 400001.

Talsania (M. K.) & Co., 18, Swadhin Sadan, "C" Rd., Churchgate, 400001.

Talwar (T. R.) & Co., 402, Churchgate Chambers, New Marine Lines, 400020.

Tamboowalla (M. E.) & Co., 51, Meher Dad, Cuffe Parade, Colaba, 400005.

Tamhane (A. Y.) & Co., J/2, New Colony, Borivli, 400066.

Tamhane (K. V.) & Co., Advani Chambers, Sir P. Mehta Rd., Fort, 400001.

Tanksali (K. S.) & Co., 4, Madhavi Mankad Co-op. Housing Society, Cadell Rd., Mahim, 400016.

Tanna (K. P.) & Co., Hamam House, Hamam St., Fort, 400001.

Tarapore (S. S.) & Co., 583, Girgaum Rd., 400004.

Tavadia & Co., Vatcha Bldg., Captain Colony, Tardeo, 400034.

Teli (P. K.) & Co., 6, Meera, 18, L. D. Ruparel Rd., 400006.

Tembe (V. K.) & Co., 35, Examiner Press Bldg., Dalal St., Fort, 400001.

Thacker & Butala, Medows House, 39, Medows St., Fort, 400001.

Thacker (J. S.) 219, Commerce House, Medows St., Fort, 400001.

Thacker (P. J.) & Co., 23, Mahavir Bldg., No. 4, Murar Rd., Mulund (West), 400080.

Thacker Devi & Co., 44, Ali Chambers, Fort, 400001.

Thakkar (A. B.) & Co., 227, Vanijya Bhavan, Samuel St., 400003.

Thakkar (K' V.) & Co., 304, Auto Commerce House, Near Kennedy Bridge, Nana Chowk, 400007.

Thakkar (K. V.) & Co., 209, Auto Commerce House, Near Kennedy Bridge, 40 0007.

Thakkar (M. N.) & Co., 269/3, "Ratan", East Sion Rd., 400022.

Thakkar (M. P.) & Co., 468, J. Shankarshet Rd., Near Dr. Viegas St., 400002.

Thakkar (S. J.) & Co., 'Anant Deep' Chambers, 275-77, Narshi Natha St., 400009.

Thakkar (S. P.) & Co., 8, Khanders Wadi, Agiyari Lane, Kalbadevi Rd., 400002.

Thakkar (T. R.) & Co., 9, Matru Prema, Hinghwala Lane, Ghatkopar, 400077.

Thakkar & Associates, 219, Commerce House, Medows St., Fort, 400001.

Thakker (D. R.) & Co., 3A, Aman Chambers, 113, New Queen's Rd., 400004.

Thakker (D. V.) & Co., 103/6, Sethia Bhuvan, Telang Cross Rd., Matunga, 400019.

Thakore (R. T.) & Co., "Pankaj Mansion", 'A' Bldg., Dr. A. Besant Rd., Worli, 400018.

Thakorebhai & Shirish Desai, Noble Chambers, Parsee Bazar St., Fort, 400001.

Thakorlal & Co., Hamam House, Hamam St., Fort, 400001.

Thakur (P. B.) & Co., New Stock Exchange Bldg., Apollo St., Fort, 400001.

Thakur (R. V.) & Co., 12-A, Western India House, Sir P. Mehta Rd., Fort, 400001.

Thakur (S. G.) & Co., Vithal Niwas, 79, Old Prabhadevi Rd., 400028.

Thakur Vaidyanath Aiyar & Co., Noble Chambers, Ghoga St., Fort, 400001.

Thanawala (P. H.) & Co., 101/2, Krishna Kunj, 439, S. Bapat Marg, Matunga Rd., 400016.

Thanawalla (B. D.) & Co., Fairy Manor, 13, Gunbow St., Fort, 400001.

Thanawalla, (J. D.) & Co., 13, Fairy Manor, Gunbow St., Fort, 400001.

Tikekar & Co., Sadhana, D-6, Dattaguru Co-op. Housing Society Ltd., Trombay Rd., Deonar, Chembur, 400088.

Todarwal Karnavat & Co., Kitab Mahal, 192, Hornby Rd., 400001.

Todarwal & Co., 112, Maker Bhawan 21, New Marine Lines, 400020.

Todi (S. N.) & Co., Ajoy Co-op. Housing Society Ltd., Dhanukarwadi, Dutt Mandir Rd., Kandivli (West), 400067.

Topiwala & Co., 37, Shasda Bhawan, Azad St., Andheri (West), 400058.

Topiwala (M. M.) & Co., Churchgate Chambers, 5, New Marine Line, Churchgate, 400020.

Totla (O. P.) & Co. B-10, Bldg. No. 12, Govindnagar, Sodawala Lane, Borivli (West), 400092.

Trivedi & Co., 7, Devkaran Mansion, Princess St., 400002.

Trivedi (D. S.) & Co., 15, Palton Rd., 400001.

Trivedi (H. N. V.) & Co., Laxmi Nilayam, Vishnu St., Nehru Rd., Vile Parle (East), 400057.

Trivedi (K. M.) & Co., Churchgate Chambers, New Marine Lines, 400020.

Trivedi (P. C.) & Co., 11, Bruce St., Fort, 400001.

Trivedi (S. A.) & Co., Dharmendra Co-op. Housing Society Ltd., Opp. Telephone Exchange, S. Vivekanand Rd., Malad (West), 400064.

Tungare (V. A.) & Co., 653-A, Karanjia House, Dhobi Talao, 400002.

Udani (L. H.) & Co., Tulsi Niwas, 61-D Rd., Churchgate Recl., 400001.

Udeshi & Co., Old Bhatia Mahajanwadi, 398/C, Kalbadevi Rd., 400002.

Udwadia (N. A.) & Co., 151, Noble Bldg., N. Desai Rd., 400004.

Undavia (P. V.) & Co., 17, Ashok Kunj, R. Ashar Lane, Ghatkopar, 400077.

Unnadkat (R. V.) & Co., 8, Madina Manzil, Khajuria Talao, G. B. Rd., Kandivli (West), 400067.

Upadhyay (B. C.) & Co., 47, Bazargate St., 400001.

Upadhyay (J. P.) & Co., 135/137, S. Memon St., 400002.

Uttam K. Jain & Co., 24, Parvati Niwas, Painagar, Borivli (West), 400092.

Vaidya (D. V.) & Co., A-2/4, Laxmi Niwas, 45, Manmala Tank Rd., Mahim, 400016.

Vaidya (S. S.) & Co., 43, Dadi House, Society Rd., Irla, 400056.

Vaidya & Co., 4, Mani Bhuvan, Maneklal Estate, L. B. Shastri Marg, Ghatkopar, 400077.

Vaidya (U. R.) & Co., 65/C, Khadilkar Rd., Girgaum, 400003.

Vaidyanath Aiyar (S.) & Co., Noble Chambers, Ghoga St., Fort, 400001.

Vaidyanatha Iyer (T. S.) & Co., Bldg. No. 39/367, Gandhinagar, Bandra (East), 400051.

Vaishampayan & Associates, 11, Bruce St., Fort, 400001.

Vaishampayan & Paranjape, 11, Bruce St., Fort, 400001.

Vaishnav (M. K.) & Co., 111-A, M. Gandhi Rd., Fort, 400001.

Vaishnav (M. N.) & Co., Jer Mahal, Dhobi Talao, 400002.

Vakil (B. N.) & Co., Duaji Court II, Colaba, 400005.

Vakil (H. S.) & Co., 112, Sir Vithaldas Chambers, 16, Apollo St., 400001.

Vakil(M. J.) & Co., Pravin Court, Queen's Rd., 400001.

Vakil (P. D.) & Co., A-1, Sea-Gull Apartments, 4-A, B. Desai Rd., 400026.

Vakil (S. K.) & Co., 19, Nanabhai Lane, Fort, 400001.

Vanjara (D. T.) & Co., 215/7, Jawahar Nagar, Goregaon, 400062.

Vardhan & Raja, 12, Bombay Mutual Bldg., Dr. D. Naoroji Rd., 400001.

Variava (F. M.) & Co., Navsari Bldg., 240, Dr. D. Naoroji Rd., Fort, 400001.

Varma & Co., 5/6, Jain Mansion, Sir P. Mehta Rd., Fort, 400001.

Varma (N.) & Co., 232, Dr. D. Naoroji Rd., 400001.

Vasani (C. V.) & Co., Kathiawar Cottage, Gokhale Rd., (North), Dadar, 400028.

Vasani (R. N.) & Co., 304, Auto Commerce House, Near Kennedy Bridge, Nana Chowk, 400007.

Vasant D. Narkar & Co., 79, N. Master St., Fort, 400001.

Vasant J. Mehta & Co., B-9, Tushar Park, Vijay Colony, Juhu Lane, Andheri (West), 400058.

Vasant M. Jhaveri & Co., 12, Bhupen Chambers, Dalal St., Fort, 400001.

Vasant N. Shah & Co., 2, Amaratdhan, 86-87, Tejpal Rd., Vile Parle (East), 400057.

Vasantlal & Co., 34, Laxmi Bldg., 11th Khetwadi Lane, 400004.

Vasantlal C. Shah & Co., 110, Medows St., Fort, 400001.

Vasavada (H. K.) & Co., 3A-1, Court Chambers, New Marine Lines, 400020.

Vatsaraj & Co., Fort Chambers, Tamarind Lane, Fort, 400001.

Ved (M. G.) & Co., Examiner Press Bldg., 109, Medows St., 400001.

Ved (S. H.) & Co., Bhimji Bhanji Wadi, M. Gandhi Rd., Ghatkopar, 400077.

Veedon (S. M.) & Co., No. 3, Githanjali, Plot No. 540, 13th Rd., Khar (West), 400052.

Vegad (K. J.) & Co., "Rekha", R. A. Kidwai Rd., Wadala, 400031.

Venkataraman (M. R.) & Co., 203, Pushpa Bhawan, Colaba, 400005.

Venkateswaran (H.) & Co., 3/197, Meera, 12th Rd., Off Station Ave. Rd., Chembur, 400071.

Vidyasagar (M. P.) & Co., Palan Sojpal Bldg., R. S. K. Bole Rd., Dadar, 400014.

Vijay Ashar & Co., Jalaram Nagar No. 2, 42-12, M. Gandhi Rd., Ghatkopar, 400077.

Vijay Bhinde & Co., 301, Mirabele Hotel Bldg., New Marine Lines, 400001.

Vijaykumar M. Desai & Co., Shree Niwas House, 27, Waudby Rd., 400001.

Vimal Kumar Gupta & Co., 288, Kalbadevi Rd., 400002.

Vinaychandra & Co., Samhava Chambers, Sir P. Mehta Rd., 400001.

Vinod & Narendra, 26-28, Noble Chambers, Parsi Bazar St., Fort, 400001.
Vinod & Co., Block 1/103, Gujarati Mandal Housing Society, Nehru Rd., Vile Parle (East), 400057.
Vinod Ambani & Co., 6, Bank House, 156, Backbay Recl., 400020.
Vinod C. Modi & Co., Ishwar Niwas, 5th Khetwadi, 400004.
Vinod K. Mehta & Co., B-22, Shankar Vijay Premises Co-op. Housing Society Ltd., Ramji Asher Cross Lane, Rajawadi, Ghatkopar, 400077.
Vinod Shah & Co., B-92, Parekhwadi, V. Patel Rd., 400004.
Vinod Vasa & Co., 1st Jumna Bldg., 292, Carnac Rd., Dhobi Talao, 400002.
Vinubhai Shah & Co., 3, Surendranagar Society, Ram Gali, S. Vivekanand Rd., Kandivli (West), 400067.
Vipin & Co., Chowpatty Chambers, Sandhurst Bridge, 400007.
Vipin Shah & Co., 3/3B, Scindia Employees Co-op. Housing Society Ltd., Andheri-Kurla Rd., 400069.
Viraswami (R.) & Co., Commissariat Bldg., 231, Dr. D. Naoroji Rd., 400001.
Virendra Bhogilal Shah & Co., 418, Kalbadevi Rd., 400002.
Virendra Mittal & Co., 5, Sunrise Bldg., 3rd Pasta Lane, Colaba, 400005.
Vishwanath & Co., Co. 25, Parsee Bazar St., 400001.
Viswanathan (N. H.) & Co., 2/109, Hindu Colony, Dadar, 400014.
Vora (C. H.) & Co., 436, Old Post Office Lane, Kalbadevi Rd., 400002.
Vora (D. B.) & Co., 8, Thakurdwar Rd., 400002.
Vora (D. J.) & Co., 15, Kohinoor Rd., Dadar, 400014.
Vora (G. R.) & Co., 10, V. Nariman Rd., Fort, 400001.
Vora (M. N.) & Co., 35, Indu Chambers, 349-353, Samuel St., 400003.
Vora Multani & Co., 55/59, Champa Gully, 400002.
Vyas & Joshi, 445-451, Kalbadevi Rd., Opp. Bhangwadi, 400002.
Vyas (C. K.) & Co., 5, Buona Casa, Sir P. Mehta Rd., Fort, 400001.
Vyas (M. S.) & Co., 7/3, Union Bank Bldg., Apollo St., Fort, 400001.
Wadia (F. B.) & Co., 29-B, Noble Chambers, Ghoga St., Fort, 400001.
Wadia (K. N. K.) & Co., Wadia Bldg., Wadia St., 400034.
Wagh (M. B.) & Co., Auto Commerce House, Kennedy Bridge, Gamdevi, 400007.
Wagh (M. N.) & Co., 76, Radhakrishna Niwas, Hindu Colony, 2nd Lane, Dadar, 400014.
Wandrekar & Co., Lalchand Trust Bldg., 263, Dr. D. Naoroji Rd., Fort, 400001.

CALCUTTA—Chartered Accountants

Abdul Mohit & Co., 6, Tottee Lane (Off Sudder St.), 700016.
Acharya (O. P.) & Co., Commerce House, 2, Ganesh Chandra Ave., 700013.
Adhikari & Co., 17, Shankar Bose Rd., 700027.
Agarwal, Bigg Carter & Co., 24, Camac St., 700016.
Agarwal (O. P.) & Co., 1, B, K. Ghosh Lane, 700006.
Agarwal Sharma & Co., 134/1, M. Gandhi Rd., 700007.
Agarwala (B. K.) & Co., 11, Pollock St., 700001.
Agarwala (P. C.) & Co., 26/4A, Armenian St., 700001.
Agarwala (R. G.) & Co., 31-B, Banstolla Lane, 700007.
Agarwalla (A.) & Co., 2, Princep St., 700013.
Aghoram (V. P.) & Co., 136-B, R, Behary Ave., 700019.
Agarwal & Agarwal, 6-A, Saklat Place, 700013.
Agrawal & Co., 204, 157, N. Subhas Rd., 700001.
Agrawal (B. N.) & Co., 94, Lower Chitpur Rd., 700007.
Agrawal (G. P.) & Co., 7, Kiran Shankar Rd., 700001.
Agrawal (H. G.) & Co., 14, Princep St., 700013.
Agrawal (J. P.) & Co., (Phool Bagan), P-286, C.I.T. Rd., 700054.
Agrawal (K.) & Co., C/o Shah Bros., 94, L. Chitpur Rd., 700007.
Agrawal (M. P.) & Co., P-147, C.I.T. Rd., 700054.
Agrawal Goyal & Co., 31/13, Banstolla Lane, 700007.
Agrawal Todi & Co., 14, Princep St., 700013.
Agrawala (P. M.) & Co., 202-A, M. Devendra Rd., 700006.
Agrawala (R. S.) & Co., P-4, C.I.T. Rd. (Near Tiretti Market), 700012.
Agrawala (S. M.) & Co., 58, 134/2, M. Gandhi Rd., 700007.
Aiyar Mandal & Co., Room No. 5 & 6, 8/2, K, Sankar Rd., 700001.
Aiyar (N. S.) & Co., 15, M. Nehru Rd., 700029.
Aiyar (R. V.) & Co., Room No. 5 & 6, 8/2, K. Sankar Rd., 700001.
Alok Chatterjee & Co., 9/2, Gariahat Rd., 700019.
Amar Sen & Co., Commerce House, 2, G. Chandra Ave., 700013.
Anupama Suvra & Co., D-49, Bangur Ave., 700055.
Anwar (M. K.) & Co., 17, Linton St., 700014.
Ar. Banerjee & Co., 79/2A, Raja Naba Kishan St., 700005.
Ashok Kumar & Co., 33, Netaji Subhas Rd., 700001.
Asim Chaudhuri & Co., 5 & 6, Hare St., 700001.
Auddy (N.) & Co., 6, Princep St., 700013.
Auddy (P.) & Co., 11, Old Post Office St., 700001.
Avari & Co., 22A, 275, Bow Bazar St., 700012.
Avash Bhattacharjee & Co., 16/1, N. L. Bose Lane, 700003.
Avinash & Co., 29, Maharshi Devendra Rd., 700007.
Awatar (R.) & Co., 1/1/65, Dum Dum Rd., 700002.
Ayrton (H. S.) & Co., Madan Mansion, 275/6, B. Bazar St., 700012.
Bhagadthey Shroff & Co., 23A, N. Subhas Rd., 700001.
Bagaria (L. P.) & Co., 11, Pollock St., 700001.
Bagchi (D.) & Co., 2, Clive Ghat St., 700001.
Bagchi (S.) & Co., 3, "Bikaner Bldgs.", 8B, L. Bazar St., 700001.
Bagree & Co., 8, Lyons Range, 700001.
Bagrodia & Co., 17, Hastings St., 700001.
Baid & Co., 20, Pathuriaghatta St., 700006.
Baid Sethia & Co., 11, Pollock St., 700001.
Bakshi (B. R.) & Co., 19, R. N. Mukherjee Rd., 700001.
Bashi (P. L.) & Co., Bikaner Bldgs., 8-B, Lall Bazar 700001.
Baksi Biswas & Co., 2nd Floor, 5, Lenin Sarani, 700013.
Bandyopadhyay (A. K.) & Co., 71-A, Hindustan Park, 700029.
Bandyopadhyay (P.) & Co., 115, Canning St., 700001.
Banerjea (K. N.) & Co., Mercantile Bldgs., L. Bazar St., 700001.

Banerjea (M. K.) & Co., 19, R. N. Bhattacharjee Lane, 700001.

Banerjea (S. N.) & Co., 10, Old Post Office St., 700001.

Banerjee (A. G.) & Co., C-4, Bharat Bhawan, 3, Chittaranjan Ave., 700013.

Banerjee (A. K.) & Co., 'Ushalaya', School Rd., 700059.

Banerjee (A. N.) & Co., 36, Brabourne Rd., 700001.

Banerjee (C. M.) & Co., 1, British Indian St., 700001.

Banerjee (D.), (Indian Association Bldgs.), 62 B. B. Ganguli St., 700012.

Banerjee (J. N.) & Co., 5 & 6, Fancy Lane, 700001.

Banerjee (K. D.) & Co., 4/1, Abinash Ghosh Lane, 700006.

Banerjee (K. M.) & Co., 36-A, Amherst Row, 700090.

Banerjee (M.) & Co., 43, Bipin Behari Ganguli St., 700012.

Banerjee (M. K.) & Co., Mercantile Bldgs., L. Bazar St., 700001.

Banerjee (N.) & Co., 33, Canning St., 700001.

Banerjee (N. C.) & Co., Commerce House, 2, G. Chandra Ave., 700013.

Banerjee (P.) & Co., 6, Old Ballygunge Rd., 700019.

Banerjee (P. C.) & Co., 52-A, Hazra Rd., Ballygunge, 700019.

Banerjee (P. K.) & Co., 1st Floor, 8, Lyons Range, 700001.

Banerjee (P. S.) & Co., 12/1, Old Post Office St., 700001.

Banerjee (R.) & Co., 28, Mahatma Gandhi Rd., 700001.

Banerjee (S. C.) & Co., 22, B, R. Bose Rd., 700001.

Banerjee (S. K.) & Co., 10, Hastings St., 700001.

Banerji (K. G.) & Co., 9, K. Sankar Roy Rd., 700001.

Banerji (S.) & Co., 1/1, Vansittart Row, 700001.

Banerji (S. C.) & Co., 45, Dharamtala St., 700013.

Banji Hansji & Co., P-15, New C.I.T. Rd., 700010.

Bardhan (P. C.) & Co., 132, Jodhpur Park, 700031.

Bartarya & Co., 2/7, Lansdowne Rd., 700020.

Barua (S.) & Co., 309, B. B. Ganguli St., 700012.

Basak & Co., Temple Chambers, No. 6, Old Post Office St., 700001.

Basak (B.) & Co., 30/3-B, C. N. Chatterjee St., 700025.

Basoo (P. K.) & Co., 2, G. Chandra Ave., 700013.

Basu (A.) & Co., 8/2, Hastings St., 700001.

Basu (A. K.) & Co., 29, Narikeldanga Main Rd., 700001.

Basu (A. R.) & Co., 368, Jodhpur Park, 700031.

Basu & Basu, 51/9C, B. B. Ganguly St., 700012.

Basu & Co., Central Block, 8, Bentinck St., 700001.

Basu (D.) & Co., 10, Old Post Office St., 700001.

Basu (D. K.) & Co., 8/2, K. Sankar Roy Rd., 700001.

Basu (G.) & Co., Basu House, 3, Chowringhee Approach, 700013.

Basu (G. S.) & Co., C/o S. C. Sen & Co., Room No. 8, D & E, Commerce House, 2, G. Chandra Ave., 700013.

Basu (H.) & Co., 62, Bentinck St., 700001.

Basu (M. M.) & Co., 1-B, Old P. O. St., 700001.

Basu (N.) & Co., Room No. 11, 29, Waterloo St., 700001.

Basu (N. K.) & Co., 86, H. Manoharpukur Rd., R. B. Ave., 700029.

Basu (P.) & Co., 9, Crooked Lane, 700001.

Basu (P. C.) & Co., 42, Rakhal Ghose Lane, 700010.

Basu (P. K.) & Co., 3, Mangoe Lane, 700001.

Basu (R. N.) & Co., 7, Central Rd., 700032.

Basu (R. P.) & Co., 8-B, Bhairab Mukherjee Lane, 700001.

Basu (S.) & Co., 7, Hastings St., 700001.

Basu (S. K.) & Co., Temple Chambers, 6, Old Post Office St., 700001.

Basu (S. P.) & Co., 40/1A, Hazra Rd., 700026.

Basu Banerjee & Co., 3rd Floor, 8/2, Hastings St., 700001.

Basudeo Prasad Agrawal & Co., P-115, C.I.T. Rd., 700014.

Basu Dey Kapoor, 36, Mott Lane, 700013.

Basu Mallik & Mukherjee, 1, Br. Indian St., 700001.

Basu Mallik (S. N.) & Co., 1, British Indian St., 700001.

Batliboi (S. R.) & Co., 36, Ganesh Chandra Ave., 700013.

Batliboi, Purohit & Darbari, 8, Old Post Office St., 700001.

Bazaj (N. K.) & Co., 4, India Exc. Place, 700001.

Bengani (B. L.) & Co., 14, Bentinck St., 700001.

Bengani (S. M.) & Co., "Temple Chambers", 6, Old Post Office St., 700001.

Beri (L. C.) & Co., Apartment 52, 116/1/1, M. Gandhi Rd., 700007.

Bhadra & Bhadra, 11, 8/2, Hastings. St., 700001.

Bhaduri (R. N.) & Co., P. 20, Deb Lane, 700014.

Bhanawat (M.) & Co., 51, Ezra St., 700001.

Bhandari (M. C.) & Co., 4, Synagogue St., 700001.

Bhandari (P) & Co., 15, Chitpur Rd., 700007.

Bhansali & Co., 60, Bentinck St., 700001.

Bhattachariya (S. K.) & Co., Raja Chambers, No. 4, Kiron Sankar Roy Rd., 700001.

Bhattacharjee & Co., Dhakuria, 55, Station Rd., 700031.

Bhattacharjee & Roy, "Mihir Dham", 5, Rishi Bankim Chandra Rd., 700001.

Bhattacharjee (H.) & Co., 5, Clive Ghat St., 700001.

Bhattacharjee (N.) & Co., Right Block, 10, Old Post Office St., 700001.

Bhattacharjee (N. N.) & Co., Suit No. 3, 10-C, Southern Ave., 700029.

Bhattacherjee (L.) & Co., 84, 10, Old P. O. St., 700001.

Bhattacharya (A.) & Co., 16-A, Pal St., 700004.

Bhattacharya (B. N.) & Co., 'B' Block, Mercantile Bldg., 9, Lall Bazar St., 700001.

Bhattacharya (K. N.) & Co., 29/1A, Chandra Chatterjee St., 700025.

Bhattacharya (N. R.) & Co., 11, Old Post Office St., 700001.

Bhattacharya (P.) & Co., 100, Swinhoe Lane, 700043.

Bhattacharya (P. C.) & Co., 10, Hastings St., 700001.

Bhattacharya (P. K.) & Co., 14, N. S. Bose Rd., 700001.

Bhattacharya (S. P.) & Co., Bentinck House, P-15, Bentinck St., 700001.

Bhattacharya Choudhury & Co., Raja Chamber, 4, Kiron Sankar Roy Rd., 700001.

Bhattacharyya & Co., C/o M. Mukerjee & Co., 24, N. Subash Rd., 700001.

Bhattacharyya (A. K.) & Co., Western Block, 18, Ramananda Chatterjee St., 700009.

Bhattacharyya (B.) & Co., 26/5/1A, Surya Sen St., 700009.

Bhattacharyya (B. K.) & Co., 1, Acharya J. C. Bose Rd., 700020.

Bhattacharyya (M.) & Co., P. 890, Lane Town, 700055.

Bhattacharyya (N. C.) & Co., 1/B, Old P. O. St., 700001.

Bhattacharyya (R.) & Co., 10/4/1, N. Bhattacharyya St., 700026.

Bhattacharyya (S. B.) & Co., 121/5C, Maniktala Main Rd., 700054.

Bhattacharyya (S. C.) & Co., 66, College St., 700012.

Bhattacharyya (S. K.) & Co., 16/17, College St., 700012.

Bhattacharyya (S. N.) & Co., Block & Flat No. 4, 64/A, Belgachia Villa, Government Quarters, 700037.
Bhattacharyya Roychoudhury & Co., "Raja Chambers", 4, Kiran Sankar Roy Rd., 700001.
Bhattacherjee (K. C.) & Paul, 2, Church Lane, 700001.
Bhaumik (K.) & Co., 10, Hastings St., 700001.
Bhaumik (P.) & Co., Room No. 51, 6, Old Post Office St., 700001.
Bhaumik (S. K.) & Co., 193-C, Picnic Garden Rd., 700039.
Bhide (P. J.) & Co., 7, Waterloo St., 700001.
Bhotica & Co., 3rd Floor, 24, R. N. Mukherjee Rd., 700001.
Bhowmick (R. P.) Co., 9J, Dum Dum Rd., 700030.
Bhowmik (P.) & Co., 60, Dharamtolla St., 700013.
Bhuniya & Co., P-39, Princep St., 700013.
Bhurat & Co., 140, M. Gandhi Rd., 700007.
Bhuteria (A. C.) & Co., Block II, Room No. 10 & 11, 2, India Exchange Place, 700001.
Bierman & Monroe, 70A, Dharamtala St., 700013.
Bidani (N. N.) & Co., 398, Block 'G', New Alipore, 700053.
Biswas (A. K.) & Co., 4, College St., 700012.
Biswas & Co., 62, Bentinck St., 700001.
Biswas (S. K.) & Co., 5, Hastings St., 700001.
Biswas Barma (N.) & Co., Mercantile Bldgs., 9, Lall Bazar St., 700001.
Biswas Chakrabarti & Co., Room No. 9, 8/2, Hastings St., 700001.
Boal & Chanchani, 18, N. Subash Rd., 700001.
Bonick & Kumar, 41, M. Gandhi Rd., 700009.
Boobna (R. P.) & Co., Room No. (F. N. 23), 12, Rabindra Sarani, 700001.
Boral (P. C.) & Co., 30 Dharamtala St., 700013.
Bose & Banerji, 25, Swallow Lane, 700001.
Bose (A.) & Co., 44, Shampookur St., 700004.
Bose (D. N.) & Co., 11, Old Post Office St., 700001.
Bose (K. C.) & Co., 2, Fairlie Place, 700001.
Bose (N. K.) & Co., 7, Fancy Lane, 700001.
Bose (R. B.) & Co., Kiron Sankar Roy Rd., 700001.
Bose (R. K.) & Co., 11, Old St., 700001.
Bose (S.) & Co., 26B, A. Mukherjee Rd., 700020.
Bose (S. K.) & Co., 18, Kailash Bose St., 700006.
Bose (S. P.) & Co., 7, Garstin Place, 700001.
Basu (P. K.) & Co., 2/2, Southern Ave., 700026.
Bothra (K. S.) & Co., Mercantile Bldgs., 9/12, Lall Bazar St., 700001.
Brahma (J. K.) & Co., 200/2C, Rash Behari Ave., 700029.
Brown & Co., 5 & 6, Fancy Lane, 700001.
Bubna (O. P.) & Co., P-125, C.I.T. Rd., Scheme VI M, 700054.
Chaitanya & Co., "Block P", New Alipore, 700053.
Chakrabarti & Co., 8/2, Hastings St., 700001.
Chakrabarti (A.) & Co., 55, Biplabi Rash Behari Basu Rd., 700001.
Chakrabarti & Nath, 121, H. Mukherjee Rd., 700026.
Chakrabarti (B.) & Co., C/o P. C. Bhattacharya & Co., 10, Hastings St., 700001.
Chakrabarti (D.) & Co., 4, Dacres Lane, 700001.
Chakrabarti (K.) & Co., 5, Lenin Sarani, 700013.
Chakrabarti (S.) & Co., No. 10, Kiran Sankar Roy Rd., 700001.
Chakrabarty (A.) & Co., 68/2D, Purna Das Rd., 700029.
Chakrabarty (B.) & Co., 12, N. Subash Rd., 700001.
Chakraborti (J.) & Co., Bikaner Bldgs., 8-B, Lall Bazar St., 700001.
Chakraborti (R.) & Co., 'Barabari', Barisha, 700008.
Chakraborty (A.) & Co., 196, Jodhpur Park, 700031.
Chakraborty (A. K.) & Co., 35, Chittaranjan Ave., 700012.
Chakraborty & Co., 17B, Hindusthan Rd., 700029.
Chakraborty (B. D.) & Co., 6, Falgun Das Lane, 700012.
Chakraborty (D.) & Co., 114, Khagendranath Sen Rd., 700042.
Chakraborty (H.) & Co., 3, West Block, Mangoe Lane, 700001.
Chakraborty (P. K.) & Co., P-216, C.I.T. Rd., Scheme-VI M, 700054.
Chakraborty (R.) & Co., 8/2, Hastings St., 700001.
Chakraborty (S. P.) & Co., 52/1/1, College St., 700012.
Chakrabarti (B. R.) & Co., 12, Russa Rd. East, Second Lane, 700001.
Chakravarti (J. C.) & Co., 8-B, L. Bazar St., 700001.
Chakravarti Choudhuri & Co., 2, Church Lane, 700001.
Chakravarti Ghosh Guha & Co., 135, Canning St., 700001.
Chakravarty & Co., Block E, Flat-1, Housing Estate, 60-67, B. T. Rd., 700002.
Chakravarty (A. C.) & Co., 6, Temple Chambers, Old Post Office St., 700001.
Chakravarty (N. C.) & Co., 10, Old Post Office St., 700001.
Chakravarty (N. K.) & Co., 4, Kiron Shankar Roy Rd., 700001.
Chakravarti & Chakravarti, Flat No. 1, "Akash Deep", Block-B, 5, Lower Rawdon St., 700001.
Chakravorti (N.) & Co., 8/2, Hastings St., 700001.
Chakravorty (B.) & Co., 62/4, Bamacharan Roy Rd., 700034.
Chanda (P. K.) & Co., 8, Old P. O. St., 700001.
Chandak (B. D.) & Co., 4, Bysack Lane, 700007.
Chandra (R. N.) & Co., 55, Sukanta Sadan, 700010.
Changoiwala & Co., 8, Lyons Range, 700001.
Chatrath (B. M.) & Co., 21, Old Court House St., 700001.
Chatrath (K. L.) & Co., 8, Circus Market Place, 700017.
Chatterjea (D.) & Co., 1/1C, Balaram Basu Ghat Rd., Bhawanipur, 700025.
Chatterjee (A. N.) & Co., 1, Mangoe Lane, 700001.
Chatterjee & Co., 4, Chandni Chowk St., 700013.
Chatterjee (B.) & Co., 27/5, Waterloo St., 700001.
Chatterjee (D. P.) & Co., 10, Old Post Office St., 700001.
Chatterjee (G.) & Co., 1/1, Meredith St., 700001.
Chatterjee (J.) & Co., 7/5, Asgar Mistry Lane, 700046.
Chatterjee (K. P.) & Co., 6, Thakurdas Palit Lane, Bow Bazar, 700012.
Chatterjee (M.) & Co., 8/2, Hasting St., 700001.
Chatterjee (N.) & Co., Temple Chambers, 6, Old Post Office St., 700001.
Chatterjee (P.) & Co., 14-B, M. Banerjee Rd., Belghoria, 700056.
Chatterjee (P. K.) & Co., Room No. 11, 29, Waterloo St., 700001.
Chatterjee (R. K.) & Co., 36/C, S. P. Mukherjee Rd., 700026.
Chatterjee (R. S.) & Co., 14/2, Old Chinabazar St., 700007.
Chatterjee (S.) & Co., 107, Amherst St., 700009.
Chatterjee (S. K.) & Co., 8/2, Hastings St., 700001.
Chatterjee (S. K.) & Co., 7-A, Pratap Chatterjee Lane. 700012.

Chatterjee (S. M.) & Co., 3, Acharya P. Chandra Ave., 700030.
Chatterjee Mandal Chakraborti & Co., 76/1, Cornwallis St., 700001.
Chatterji (A.) & Co., 11, Old Post Office St., 700001.
Chatterji (S. N.) & Co., No. 22, Strand Rd., 700001.
Chattopadhyay (K. P.) & Co., P-56-F, Block D, New Alipore, 700053.
Chattopadhyaya & Chattopadhyaya, 5 & 6, Fancy Lane, 700001.
Chattopadhyaya (N.) & Co., 5 & 6, Fancy Lane, 700001.
Chaturvedi & Co., 60, Bentinck St., 700001.
Chaudhary (R. P.) & Co., 4, Jagmohan Mullick Lane, 700007.
Chaudhuri & Co., 12A, Mohanlal Mitra Lane, Shambazar, 700001.
Chaudhuri (B. R.) & Co., 12, Dharamtala St., 700013.
Chaudhuri (N.) & Co., 10, Old Post Office St., 700001.
Chaudhuri (P.) & Co., P-556, C.I.T. Scheme No. 47, 700029.
Chaudhuri (U. M.) & Co., 12/1, Old Post Office St., 700001.
Chaudhury (B.) & Co., 6-B, Bentinck St., 700001.
Chhajer (D. K.) & Co., 3, Abhoy Guha Rd., 700001.
Chhajer (K.) & Co., 33, Brabourne Rd., 700001.
Chhawchharia (B.) & Co., 33, N. Subash Rd., 700001.
Chopra, Robson, Morrow & Co., 64, Middleton St., 700001.
Choudhary & Co., 148, M. Gandhi Rd., 700007.
Choudhary (A.) & Co., 29-A, Zakaria St., 700007.
Choudhary & Choudhary, 10, Waterloo St., 700001.
Choudhary Mawandia & Co., 90, Indian Agency, 62, Bentinck St., 700001.
Choudhary (V. K.) & Co., C/o P. M. Tharad, 11, Pollock St., 700001.
Choudhury & Co., P-10, Devendra Dutta Lane, 700007.
Choudhury (A. C.) & Co., 21, Sukeas Lane, 700001.
Choudhury (H. P.) & Co., 22, Mahanirvan Rd., 700001.
Choudhury (K. P.) & Co., 9, Lall Bazar St., 700001.
Choudhury (M.) & Co., 19, R. N. Mukherjee Rd., 700001.
Choudhury (P.) & Co., 7, Amrita Banerjee Rd., 700026.
Choudhury (S. C.) & Co., 162/159, Lake Gardens, 700045.
Choumal (R. S.) & Co., Temple Chambers, 6, Old Post Office St., 700001.
Chowdhary (R.) & Co., 18, Mullick St., 700007.
Chowdhury & Co., 87, Dharamtala St., 700013.
Chowdhury (S. C.) & Co., Bikaner Bldg., 8-B, Lall Bazar St., 700001.
Chowdhury (S. P.) & Co., 49-A, A. M. Bose Rd., 700001.
Credeb (S.) & Co., 299, Vivekanand Rd., 700006.
Daga (L. R.) & Co., 8, Raja Brojendra St., 700007.
Daga (S. M.) & Co., 31, Brabourne Rd., 700001.
Daga (T. R.) & Co., 47, Khengraputty St., 700007.
Daga, Passary & Co., 5, Mangoe Lane, 700001.
Dalmia & Co., 196/C, Chittaranjan Ave., 700007.
Dandekar (M. K.) & Co., 3, Chowringhee Approach, 700013.
Dandekar (S. B.) & Co., P-36, India Exchange Place, 700001.
Dangi (S. K.) & Co., 33, Bartolla St., 700007.
Darbari (M. D.) & Co., 8, Old Post Office St., 700001.
Das & Datta, 10, Old Post Office St., 700001.
Das & Maulik, 9, Old Post Office St., 700001.
Das & Prasad, 9, Jagmohan Maullick Lane, 700007.
Das (A.) & Co., 19-B, Jayshree Park, 700034.
Das (B. N.) & Co., 5 & 6, Fancy Lane, 700007.
Das (C.) & Co., Bikaner Bldg., 8-B, L. Bazar St., 700001.
Das (C. R.) & Co., 10, 16, India Exc. Place, 700001.
Das (D.) & Co., 43/4-A, S. N. Banerjee Rd., 700014.
Das (D. B.) & Co., 11, Portuguese Church St., 700001.
Das (D. C.) & Co., "Kaibaalyadham", P.O. Deshbandhunagar, 700059.
Das (D. L.) & Co., Room 8, 7, Old P. O. St., 700001.
Das (G.) & Co., 6, Old Post Office St., 700001.
Das (H. C.) & Co., Room No. 7A, "Commerce House", 2, Ganesh Chandra Ave., 700013.
Das (I. N.) & Co., 9, Kiron Sankar Roy Rd., 700001.
Das (J. C.) & Co., 32A, Chittaranjan Ave., 700012.
Das (K. P.) & Co., 7, Old Post Office St., 700001.
Das (M. K.) & Co., 24/3-A, College St., 700012.
Das (N. C.) & Co., P/53, Pallisree, Regent Park, 700040.
Das (N. K.) & Co., Room No. 5 & 6, 8/2, Hastings St., 700001.
Das (R. C.) & Co., 1B, Old P. O. Bldg., 700001.
Das (R. M.) & Co., 10, Old Post Office St., 700007.
Das (S.) & Co., 6-B, Asutosh Sil Lane.
Das (S. K.) & Co., 2, Mission Row, 700001.
Das (S. N.) & Co., Room No. 5 & 6, 8/2, Hastings St., 700001.
Das (T. K.) & Co., 23-A, Arupuli Lane, 700012.
Das Gupta (A.) & Co., 12, Chowringhee Square, 700001.
Das Gupta (A. C.) & Co., 12/1, Old Post Office St., 700001.
Das Gupta (A. K.) & Co., 18, Rabindra Sarani, 700001.
Das Gupta (B. K.) & Co., 7-D, Cornfield Rd., 700019.
Das Gupta (P.) & Co., 58/A, Chandra Mondal Lane, 700026.
Das Gupta (R. K.) & Co., 12, Chowringhee Square, 700001.
Dasgupta (S.) & Co., 70-A, Dharamtala St., 700013.
Dasgupta (S. C.) & Co., 2D, Bipin Mitra Lane, 700004.
Das Gupta (S. N.) & Co., 11, Old Post Office St., 700001.
Das Gupta (S. R.) & Co., 1st Floor, 13/1, Old Post Office St., 700001.
Das Sarkar & Co., 2nd Floor, 5, Lenin Sarani, 700013.
Dash Sarkar & Co., 196/B, B. B. Ganguly St., 700012.
Dass (S. R.) & Co., P-249/M-VI, C.I.T. Rd., 700054.
Datta (D.) & Co., 8, Old Post Office St., 700001.
Datta (D. D.) & Co., 151, Manmatha Dutta Rd., Belgachia, 700037.
Datta (D. K.) & Co., 23/24, Radha Bazar St., 700001.
Datta (M.) & Co., Room No. 22, 10, Old Post Office St., 700001.
Datta (R. N.) & Co., 17/B, Ekdalia Place, 700019.
Datta (S.) & Co., 35, Chittaranjan Ave., 700012.
Datta (S. K.) & Co., 1, Raja Subodh Mullick Square, 700013.
Day & Co., 12/1, Old Post Office St., 700001.
Day (S. K.) & Co., 30, Elgin Rd., 700020.
De (A. K.) & Co., 8/2, Hastings St., 700001.
De & Bose, 1 & 18, 8/2, Hastings St., 700001.
De & Ganguli, 3/1, Mangoe Lane, 700001.
De (B.) & Co., 9, Crooked Lane, 700001.
De (B. K.) & Co., 8/2, Hastings St., 700001.
De (H. P.) & Co., 5/2, Garstin Place, 700001.
De (P. K.) & Co., 2nd Floor, 5, Lenin Sarani, 700013.
De (R. C.) & Co., "Bikaner Bldg.", 8-B, Lall Bazar St., 700001.

De (S. N.) & Co., 2, Church Lane, 700001.
Deb & Deb, 7, Garstin Place, 700001.
Deb (D. P.) & Co., 167/7, Dharamtolla St., Chandi Chowk Market, 700013.
Deb (M. K.) & Co., Room Nos. 21 and 22, 8/2, Hastings St., 700001.
Deb (S. C.) & Co., 8, Old Post Office St., 700001.
Dey (A. K.) & Co., 4/1C, Champatola First Bye Lane, 700012.
Dey & Dey, 70, Sri Gopal Mullick Lane, 700012.
Dey (H. C.) & Co., 88, Chowringhee Rd., 700020.
Dey (N.) & Co., 1st Floor, 3/1, Mangoe Lane, 700001.
Dey (P. K.) & Co., 38, N. Subash Rd., 700001.
Dey (P. N.) & Co., 15/B, Gopi Kristo Paul Lane, 700006.
Dhar (H. S.) & Co., "Koonja Nivas", 23-A, Sirdar Sankar Rd., 700029.
Dhar (S.) & Co., 2, Church Lane, 700001.
Dhar (S. K.) & Co., 6-A, Nandalal Jew Rd., 700026.
Dhar (S. S.) & Co., D-49, Bangur Ave., 700055.
Dhar Das Bhaumik & Co., 10/3, Central Park, 700032.
Dhupia & Co., 4, College St., 700012.
Dindayal & Co., 65/1, Maharshi Debendra Rd., 700006.
Dokania & Co., 23, Nand Ram Sen St., 700005.
Dokeniya (R. K.) & Co., E35, C.I.T. Bldgs., Singhibagan, 700007.
Doshi (P. M.) & Co., 71, Canning St., 700001.
Doshi Gandhi & Co., 71, Canning St., 700001.
Drolia (B. K.) & Co., 5, N. P. Babu Lane, 700007.
Dudhoria (A.) & Co., 11, Old P. O. St., 700001.
Dutt (M. L.) & Co., 70A, Dharamtala St., 700013.
Dutt (S. C.) & Co., 35, N. Subash Rd., 700001.
Dutt (S. K.) & Co., 8A, Kalu Ghosh Lane, 700009.
Dutta & Co., 17/3, Chowringhee Rd., 700001.
Dutta (A. K.) & Co., 7, Garstin Place, 700001.
Dutta (C.) & Co., 7, Hastings St., 700001.
Dutta (J. N.) & Co., 8-A, G. N. Dutta Lane, 700006.
Dutta (M.) & Co., 30, Surjya Sen St., 700009.
Dutta (M. K.) & Co., 45-B, Linton St., 700014.
Dutta (N. C.) & Co., 14-A, Kaloo Ghose Lane, 700009.
Dutta (R.) & Co., P-267, C.I.T. Rd., Scheme No. IV M., 700010.
Dutta (R. N.) & Co., Hindustan Commercial Bank Bldg., 18, N. Subash Rd., 700001.
Dutta (R. N.) & Co., Hindustan Commercial Bank Bldg., 18, N. Subash Rd., 700001.
Dutta (S.) & Co., 35, N. Subash Rd., 700001.
Dutta (S. C.) & Co., 235/1C, N. Subash Chandra Bose Rd., 700047.
Dutta (S. N.) & Co., 1st Floor, 5 & 6, Fancy Lane, 700001.
Dutta Chaudhury & Co., 16, Indian Exc. Place, 700001.
Dutta Gupta (A.) & Co., 16, Naren Sen Square, 700009.
Dutta Gupta (S. K.) & Co., 5, Lenin Sarani, 700013.
Dutta Bir Ray & Co., 6, Old Post Office St., 700001.
Dutta Sarkar & Co., 7, Hastings St., 700001.
Ford, Rhodes, Parks & Co., 15, Chittaranjan Ave., 700013.
Ganeriwala (R. G.) & Co., 99E, Block 'F', New Alipore, 700053.
Ganguli & Co., 1st Floor, 1B, Old Post Office St., 700001.
Ganguli (A.) & Co., 19, British Indian St., 700001.
Ganguli (N. C.) & Co., Room No. E/3, Top Floor, 'Gupta Mansion', 71-A, N. Subash Rd., 700001.
Ganguli (P. N.) & Co., 7, Old Post Office St., 700001.
Ganguli, Mukherjee & Co., Post No. 719, 23, Strand Rd., 700001.
Ganguly & Bose, 70-A, Dharamtala St., 700013.
Ganguly (N.) & Co., 10, Old P. O. St., 700001.
Ganguly (P.) & Co., Block 'D', Plot No. 96, Bangur Ave., Patipukar, 700028.
Ganguly (S. K.) & Co., C/o Indo-Riv-Refractories (P.) Ltd., 6-B, Bentinck St., 700001.
Garg & Co., 36/2, Vivekananda Rd., 700007.
Garg (D. P.) & Co., Room No. 2, 1st Floor, Block No. 4, 12B, Rabindra Sarani, 700001.
George Read & Co., Avenue House, Chowringhee Square, 700001.
Ghatalia & Jhunjhunwala, 6, Old Post Office St., 700001.
Ghiya & Co., 10, Princep St., 700013.
Ghiya (O. P.) & Co., 10, Princep St., 700013.
Ghose (A. N.) & Co., 231-B, N. Subash Chandra Bose Rd., 700001.
Ghose (J.) & Co., C/o Messrs. Biosco Pvt. Ltd., 1st Floor, 14, Hare St., 700001.
Ghose (N. C.) & Co., P-39, Mission Row Extension, 700001.
Ghose (P. R.) & Co., 62/1, Hindusthan Park, 700029.
Ghose (S.) & Co., 2nd Floor, 11, Old Post Office St., 700001.
Ghose (S. P.) & Co., 2, Mission Row, 700001.
Ghose (T. K.) & Co., Room No. 20, 10, Old Post Office St., 700007.
Ghose Chowdhury & Co., 1, British Indian St., 700001.
Ghosh (A.) & Co., Room No. 11, 2nd Floor, Commerce House, 2, Ganesh Chandra Ave., 700013.
Ghosh (A. K.) & Co., 158-D, Acharya Prafulla Chandra Rd., 700004.
Ghosh & Basu, 61, Bentinck St., 700001.
Ghosh & Ganguli, Room No. 1, 1st Floor, 70A, Lenin Saranee, 700013.
Ghosh & Ghosh, 25, Mission Court, R. N. Mukherjee Rd., 700001.
Ghosh & Pande, B/210/2, Bagree Market, 71, Canning St., 700001.
Ghosh (B.) & Co., 14/2, Old China Bazar St., 700001.
Ghosh (J. K.) & Co., 17, G. Auddy Rd., Alipore, 700027.
Ghosh (L. N.) & Co., 12/A, Mohanlal Mitra Lane, 700004.
Ghosh (M. K.) & Co., 60/67, B. T. Rd., 700002.
Ghosh (M. N.) & Co., 6/1, Saklat Place, 700013.
Ghosh (N.) & Co., 7-B, Nafar Kundu Rd., 700026.
Ghosh (N. C.) & Co., 170/A, Bidhan Saranee, 700006.
Ghosh (N. P.) & Co., 1/1F, Jawaharlal Datta Lane, 700004.
Ghosh (P.) & Co., 12, Chowringhee Square, 700001.
Ghosh (P. K.) & Co., P-39, Prinsep St., 700013.
Ghosh (S.) & Co., 3, Chittaranjan Ave., 700013.
Ghosh (S. C.) & Co., 4C, Nafar Kundu Rd., 700026.
Ghosh (S. K.), 18, Hyat Khan Lane, 700009.
Ghosh (S. K.) & Co., 10, Old Post Office St., 700001.
Ghosh Nundy & Co., 116/1/1, M. Gandhi Rd., 700007.
Ghosh Sarkar & Co., 4, Dover Rd., 700019.
Ghoshal & Co., 11, Polock St., 700001.
Ghoshal & Ghoshal, 23, N. Subash Rd., 700001.
Goel & Co., 109, N. Subash Rd., 700001.
Gopalan (V. S.) & Co., 2, Church Lane, 700001.
Goswami (J. C.), 34-A, Ananda Palit Rd., 700014.
Green & Co., 41/F, S. P. Mukherji Rd., 700026.
Guha & Guha, 8-B, Lall Bazar St., 700001.

Guha & Sons, 7-J, S. R. Das Rd., 700026.
Guha (A. K.) & Co., 16, Lake Temple Rd., 700029.
Guha (B.) & Co., 5 & 6, Hare St., 700001.
Guha (D.) & Co., P-75, C.I.T. Scheme, VI M, 700054.
Guha (M.) & Co., 59/2, Dharamtolla St., 700013.
Guha (S. C.) & Co., 33, Dharamtolla St., 700013.
Guha (S. K.) & Co., 16, Mangoe Lane, 700001.
Guha (S. N.) & Co., 12, Waterloo St., 700001.
Guha, Basu and Seetharam, 20, Strand Rd., 700001.
Guhamozumdar & Co., 1/1/1, Hazra Rd., 700026.
Guha Nandi & Co., "Commerce House", 2-A, G. Chandra Ave., 700013.
Guha Sarkar (N.) & Co., 8, Old Post Office St., 700001.
Guha Sarkar (S.) & Co., 33-A, Lake Place, 700029.
Guha Thakurta (S.) & Co., 16, Lake Temple Rd., 700029.
Gupta & Co., 14/5B, Golf Club Rd., 700033.
Gupta (A. S.) & Co., 10, Old Post Office St., 700001.
Gupta (B.) & Co., 28/1, Gariahat Rd., 700019.
Gupta (B. K.) & Co., 18-B, Sukeas Lane, 700001.
Gupta (C. L.) & Co., 2, Digamber Jain Temple Rd., 700007.
Gupta (D.) & Co., 3A, B. Mondal Rd., 700026.
Gupta (K.) & Co., 74, Pathuria Ghat St., 700006.
Gupta (K. L.) & Co., 5, Council House St., 700001.
Gupta (P. C.) & Co., 55, Srigopal Mullick Lane, 700012.
Gupta (R. N.) & Co., 3/2, Madan St., 700013.
Gupta (R. S. P.) & Co., 10, Old Post Office St., 700001.
Gupta (S. K.) & Co., 12, Chowringhee Square, 700001.
Gupta Chowdhury & Ghosh, Chowringhee Square, 700001.
Gupta Majumdar & Co., 19/2-C, Selimpur Rd., 700031.
Gupta Sarma (S. K.) & Co., 78, G. Basi Rd., 700028.
Gupta & Mitra, P-14, Mission Row Ext., 700001.
Gutgutia & Co., 33, N. Subash Rd., 700001.
Gutgutia (A. K.) & Co., 33, N. Subash Rd., 700001.
Gutgutia (D. N.) & Co., 34, Dehi Serampore Rd., 700014·
Gutgutia (K. N.) & Co., 33, N. Subash Rd., 700001.
Gutgutia (K. P.) & Co., 5/1-2E, Cornfield Rd., 700019.
Halder & Co., 11, Old Post Office St., 700001.
Hansotia (P. C.) & Co., 3, Chowringhee Approach, 700013.
Iyengar & Co., 92N, Block E, New Alipore, 700057.
Jain & Co., 2nd Floor, P21/22, Radha Bazar St., 700001.
Jain (B.) & Co., 49, Nalini Sett Rd., 700007.
Jain (H. S.) & Co., 37, D. Tagore St., 700006.
Jain, (M. C.) & Co., 33, Brabourne Rd., 700001.
Jain, (M. S.) & Co., 4, Synagogue St., 700001.
Jain (N.) & Co., 2/1D, G. Auddy Rd., Alipore, 700027.
Jain (N. C.) & Co., 18-B, Brabourne Rd., 700001.
Jain (R. C.) & Co., 18-B, Brabourne Rd., 700001.
Jain (R. K.) & Co., 10, R. G. Kar Rd., 700004.
Jain (V. C.) & Co., 135-A, Canning St., 700001.
Jain Co., 3rd Floor, 18-B, Brabourne Rd., 700001.
Jain, Jain & Co., 135-A, Canning St., 700001.
Jain Saraogi & Co., 23, Rajendra Mullick St., 700007.
Jainsarawagee & Co., 177-B, Chittaranjan Ave., 700007.
Jaiswal (R. P.) & Co., 14-B, B. N. Mitter Lane, 700009.
Jaitly & Luthra, 2, G. Chandra Ave., 700013.
Jaju & Co., 3, Fancy Lane, 700001.
Jana (P. C.) & Co., 70-A, Dharmtolla St., 700001.
Jha & Co., 14-B, Brajanath Mitter Lane, 700009.
Jhangiani & Co., P-17/A, Darga Rd., 700017.
Jhunjhunwala & Co., 23, N. Subash Rd., 700001.
Jhunjhunwala (B. K.) & Co., 54-A, Zakaria St., 700007.
Jhunjhunwala (H. P.) & Co., 30/31, Kalakar St., 700007.
Jhunjhunwala (N. K.) & Co., 22, New Tangra Rd., 700046·
Jhunjhunwala Saraf & Co., 23-A, N. Subash Rd., 700001.
Kailash Jain & Co., 9A, Khairu Place, 700013.
Kalotra (J. S.) & Co., 15, S. Chatterjee Ave., 700029.
Kalyaniwalla & Mistry, P-7, Mission Row Extn., 700013.
Kamal C. Jain & Co., 140, Cornwallis St., 700001.
Kamal Roy & Co., 49, Raja Nabo Krishna St., 700005.
Kant & Co., 9/1, Justice C. Madhav Rd., Bhawanipur, 700020.
Kapoor (A. K.) & Co., 96, Jatindra Mohan Ave., 700005.
Kapoor (K.) & Co., Flat 4, 15, Dover Rd., 700001.
Kapoor (K. K.) & Co., 77, S. P. Mukherjee Rd., 700026.
Kapoor (R. N.) & Co., 160, M. Gandhi Rd., 700007.
Kapur (A. N.) & Co., 7-A, Cornfield Rd., 700019.
Kar (T. P.) & Co., 146, Amherst St., 700009.
Kar Sen & Co., 9, Kiron Sankar Roy Rd., 700001.
Kasliwal (R. K.) & Co., 46, Strand Rd., 700007.
Kedia & Kedia, 4, Ganesh Chandra Ave., 700013.
Kedia & Purohit, 4, Ganesh Chandra Ave., 700013.
Kedia & Co., 207, M. Debendra Rd., 700007.
Kedia (G. P.) & Co., Lower Chitpur Rd., 700007.
Kedia (M. P.) & Co., 22, M. Debendra Rd., 700007.
Kedia (S. R.) & Co., 94, Lower Chitpur Rd., 700001.
Kejriwal (G. P.) & Co., Room No. 30, 5, Clive Row, 700001.
Kejriwal Yorston & Co., 19, K. K. Tagore St., 700007.
Khaitan (B. R.) & Co., 132, Cotton St., 700007.
Khajanchi & Co., 29, B. Dalal St., 700006.
Khandelia (R. B.) & Co., 43, Sir H. Goenka St., 700007.
Khandelwal (H. P.) & Co., 1-B, Old Post Office St., 700001.
Khandelwal (K. C.) & Co., 8-B, Braunfeld Market, 700027.
Khandelwal (M. L.) & Co., 39/A, Sir H. Goenka St., 700007.
Khastagir (K.) & Co., 8, Old Post Office St., 700001.
Khastgir (S.) & Associates, P-112, Lake Town, 700055.
Khater (R. C.) & Co., 67/46, Strand Rd., 700007.
Khetan (M. L.) & Co., 5, Narayan Babu Lane, 700007.
Kishore (B.) & Co., Sharaf Mahal, Post Baxibazar.
Kishore (R.) & Co., 103, Hari Ghosh St., 700006.
Koomar (N. K.) & Co., Flat-10, 43, Southern Ave., 700029.
Kothari & Co., 71, G. Chandra Ave., 700013.
Kothari (D. M.) & Co., 23/24, Radhabazar St., 700001.
Kothari (S. S.) & Co., 21, Old Court House St., 700001.
Koushik & Co., 18, Nandana Park, 700034.
Koyal & Co., 16/1, Komedan Bagan Lane, 700016.
Kumar (B.) & Co., 41, M. Gandhi Rd., 700009.
Kumar (D.) Chaudhury & Co., 2, Auckland Place, 700017.
Kumar (H.) & Co., 3, S. N. Banerjee Rd., 700027.
Kumar (V. V.) & Co., Nalin Sarkar St., 700004.
Kumbhat (N. C.) & Co., 35, Armenian St., 700001.
Kundu (B. C.) & Co., P-17, Mission Row Ext., 700013.
Kundu (B. K.) & Co., 10-J, Fern Rd., 700019.
Kundu (D. B.) & Co., P-184, Suren Sarkar Rd., 700010.
Kundu (J.) & Co., 28, Raja Naba Krissan St., 700005.
Kundu (N.) & Co., 4/58, Netaji Nagar, Regent Park, 700040.
Kundu (N. C.) & Co., 7, Garstin St., 700001.
Kundu (P. C.) & Co., 25, Waterloo St., 700001.

Laha (P.) & Co., C/31, Ramgarh, Naktala, 700047.
Lahiry (T. N.) & Co., 4, Chandney Chowk St., 700013.
Lahoti & Co., 166, M. Gandhi Rd., 700007.
Lakhotia (K. C.) & Co., 299/300, Bagmari Rd., 700054.
Lakhotia (K. M.) & Co., 207, M. Debendra Rd., 700007.
Lamboria (B. C.) & Co., 6, Fancy Lane, 700001.
Law (A. K.) & Co., 51, Chowringhee, 700016.
Laxman B. Jha & Co., 11, Old Post Office St., 700001.
Lilha (P. K.) & Co., 9, Narayan Prasad Basu Lane, 700007.
Lochan (P.) & Co., Sahu Bldg., Mission Lane, 700001.
Lodha & Co., 14, Govt. Place East, 700001.
Lodha (J. S.) & Co., 14, Govt. Place East, 700001.
Lodha (V. M.) & Co., 15-A, L. N. Mukherjee Rd., 700006.
Loharuka & Co., 12, Old Post Office St., 700001.
Lovelock & Lewes, New India Assurance Bldgs., 4, Lyons Range, 700001.
Loyalka (J.) & Co., 3, Fancy Lane, 700001.
Lunia & Co., P-4, New Howrah Bridge Approach Rd., 700001.
Mahadevan (P. K.) & Co., 2/2, S. Baidya St., 700029.
Mahendra Kumar & Co., 44, Burtalla St., 700007.
Maheswari (S. K.) & Co., 5, Hajimohsin Rd., 700026.
Maiti (A.) & Co., 589, New Alipore, 700053.
Maiti (A. R.) & Co., 70-A, Dharmtala St., 700013.
Maiti (H. S.) & Co., 64/A, Belgachia Rd., 700037.
Maitin & Co., No 6, Hastings St., 700001.
Maitra & Co., D-49, Bangur Ave., 700055.
Maitra (A.) & Co , 167/7, Dharamtolla St., 700013.
Majumdar & Co., 9B, Jadav Chandra Ghose Lane, 700036.
Majumdar (A. K.) & Co., 19/2, Selimpur Rd., 700031.
Majumdar (H. M.) & Co., 8, Old Post Office St., 700001.
Majumdar (P.) & Co., 5, Commercial Bldgs., 700001.
Majumdar (S. K.) & Co., 21/A, R. B. Roy Rd., Kalighat, 700026.
Majumder (R. N.) & Co., 25, Swallow Lane.
Malick & Co., 10, Old Post Office St., 700001.
Mall (S.) & Co., India 12, Exchange Place, 700001.
Mallick (S.) & Co., 11, Old Post Office St., 700001.
Mallick (S. K.) & Co., 8B, Lalbazar St., 700001.
Mallik & Associates, 70-B, Lenin Saranee, 700013.
Mallik (B. K.) & Co., Mercantile Bldg., 9-12, Lalbazar, 700001.
Mallik (K.) & Co., 8/2, K. S. Roy Rd., 700001.
Manabendra Bhattacharyya & Co., 4, K. S. Roy Rd., 700001.
Mandal (G. D.) & Co., 19, R. N. Mukherjee Rd., 700001.
Mandal (J.) & Co., 12, Old Post Office St., 700001.
Mandal (L. M.) & Co., 29, Sarat Ghosh Garden Rd., 700031.
Manek A. Davar & Co., 8, Old Post Office St., 700001.
Manpuria & Co., 11, Pollock St., 700001.
Manpuria (M. L.) & Co., 7/1, Brindaban Pal Lane, 700003.
Mansighka (A. K.) & Co., 167, 'M' Rash Behari Ave. 700019.
Marda (H. M.) & Co., 2-A, Madhav Chatterji St., 700020.
Maulik (J. B.) & Co., 11, Old Post Office St., 700001.
Mazumder (S.) & Co., 17/2, Jhamapukur Lane, 700009.
Mazumdar (S. C.) & Co., 6, Old Post Office St., 700001.
Mazumdar (S. K.) & Co., 14/29, Golf Club Rd., 700033.
Md. Sadeque Hossain & Co., 116, M. Gandhi Marg, 700007.
Mehta (K.) & Co., 14/1/1A, Jackson Lane, 700001.
Mehta (M. L.) & Co., 49/11/D, Hindustan Park, 700029.
Mehta (R. C.) & Co., P-545, Lake Rd., Extension, 700029.
Mier & Co., 86-B, Jhowtala Rd., 700017.
Mimani (G. D.) & Co., 35, J. Bajaj St., 700007.
Mitra (A. K.) & Co., 25, Mandeville Gardens, 700045.
Mitra & Co., 7B, Herembo Das Lane, 700009.
Mitra & Chowdhury, 1, N. Subash Rd., 700001.
Mitra (G. K.) & Co., 4/A, Naba Basu Lane, 700010.
Mitra (J.) & Co., 50/10A, H. Mukherjee Rd., 700025.
Mitra (N. C.) & Co., 10, Old Post Office St., 700001.
Mitra (N. L.) & Co., 57/2A, Raja Dinendra St., 700006.
Mitra (P. K.) & Co., P-7, Mission Row Extension, 700001.
Mitra (P. N.) & Co., 153/1, Radhabazar St., 700001.
Mitra (R. K.) & Co., 11, Old Post Office St., 700001.
Mitra (R. P.) & Co., 703-F, Block-P, New Alipore, 700053.
Mitra (S.) & Co., 22A, A. Banerjee Rd., 700026.
Mitra (S. K.) & Co., 2-A, Chowringhee Sq., 700001.
Mitra (S. N.) & Co., 28/1/1, Beadon Row, 700006.
Mitra Kundu & Basu, 1A, Acharya J. C. Bose Rd., 700020.
Mitra Malik & Co., Commerce. House, 2, G. Chandra Ave., 700013.
Mittal (N. S.) & Co., 76, Block-E, New Alipore, 700053.
Mitter (S. K.) & Co., 71-A, N. Subash Rd., 700001.
Mittra & Co., 2-D, Kalacand Sanyal Lane, 700004.
Mittra (B. K.) & Co., Chowringhee Rd., 700001.
M. N. Nundy, 116/1/1, M. Gandhi Rd., 700007.
Modak (P.) & Co., 12-B, N. Subash Rd., 700005.
Mohan Dey & Co., 10, Old Post Office St., 700001.
Mohanty (B.) & Co., Manglabag.
Mohta & Co., 35, Armenian St., 700001.
Mojumder (P. K.) & Co., & 4, Hare St., 700001.
Mondal (R. C.) & Co., 22/8, J. Basak Rd., 700036.
Mondal (S. B.) & Co., 4, Chandni Chowk St., 700013.
Mookerjea (T. C.) & Co., 2, G. Chandra Ave., 700013.
Mookerjee Banerjee & Co., 12, Old Post Office St., 700001.
Mookerjee, Biswas & Pathak, Fancy Lane, 700001.
Mookerjee Ghathakurata & Co., 7, Hastings St., 700001.
Mookherjee (H. P.) & Co., 7, Hastings St., 700001.
Mookherjee (N.) & Co., 12/1, Northern Ave., 700037.
Mookherjee (L. P.) & Co., 7, Hastings St., 700001.
More (L. N.) & Co., Professorpara, (Near Bajrakabati Rd.), 700003.
Mukerjea (B.) & Co., 10, Old Post Office St., 700001.
Mukerjea (P. N.) & Co., 11, Old Post Office St., 700001.
Mukerjee (M.) & Co., 24, N. Subash Rd., 700001.
Mukerjee (S.) & Co., 76-1, Cornwallis St., 700001.
Mukerjee (S. K.) & Co., 21, Sooterkin St., 700013.
Mukherjea (A. C.) & Co., 12, Chowringhee Sq., 700001.
Mukherjea (K. K.) & Co., 12, R. Bose, 2nd Lane, 700006.
Mukherjee & Co., 1-B, Old Post Office St., 700001.
Mukherjee (A.), 12, Dalhousie Square East, 700001.
Mukherjee (A. K.) & Co., 2/4-B, Hindusthan Rd., 700029.
Mukherjee & Pal, 5, Council House St., 700001.
Mukherjee (A. S.) & Co. 4, "Commerce House", 2, G. Chandra Ave., 700013.
Mukherjee (B.) & Co., 30-B, Ram Kamal St., 700023.
Mukherjee (B. N.) & Co., 8/2, Hastings St., 700001.
Mukherjee (D. N.) & Co., Chowringhee Sq., 700001.
Mukherjee (G.) & Co., 7, Old Post Office St., 700001.

Mukherjee (M. K.) & Co., 5, Lenin Sarani, 700013.
Mukherjee (P. N.) & Co., 8/2, Hastings St., 700001.
Mukherjee (S.) & Co., 6-B, Bentick St., 700001.
Mukherjee Deb & Co., 8, Old Post Office St., 700001.
Mukherjee, Sanyal, Samanta & Co., 6-B, Bentinck St., 700001.
Mukherji (A. K.) & Co., 43-A, Palam Ave., 700019.
Mukherji (S. N.) & Co., 1-B, Old Post Office St., 700001.
Mukhopadhyay (A. K.) & Co., 15, Creek Row, 700014.
Mukhopadhyay (P.) & Co., 12-B, N. Subash Rd., 700001.
Mukhopadhyay (S. N.) & Co., 10, Hastings St., 700001.
Mullick (K. K.) & Co., 5, Hastings St., 700001.
Mullick Mukherjee & Co., 5, K. S. Roy Rd., 700001.
Mundhra & Co., 1-B, Old Post Office St., 700001.
Mundhra (R. L.) & Co., 22, Rabindra Sarani, 700001.
Nag & Co., 181, Rash Behary Ave., 700029.
Nag (G.) & Co., Block 'P', New Alipore, 700053.
Nagar (N. L.) & Co., 7B, Prannath Pandit St., 700025.
Nahata & Co., 16, Jamuna Lal Bajaj St., 700007.
Nandi (A. K.) & Co., 86/38/1, B. Debya Rd., 700061.
Nandi (D. K.) & Co., "Nandi Kutir", Fatakgora.
Nandi (P. C.) & Co., 6, Hastings St., 700001.
Nandy (A.) & Co., 42/1C, Sankaritola St., 700014.
Narayan (L.) & Co., 33, Chittaranjan Ave., 700012.
Naresh Jain & Co., 24, Khudi Ram Bose Rd., 700005.
Nath (K.) & Co., 12, Dalhousie Sq. East, 700001.
Nawn (K. C.) & Co., 8-B, Lall Bazar St., 700001.
Nawn (S. K.) & Co., 5-D, Bethune Row, 700006.
Nayar (J. K.) & Co., P-14, Mission Row Ext., 700001.
Nemani (B. L.) & Co., 10/1, Alipur Park Place, 700027.
Nem Chand Sons, 17 ND. Block 'A', New Alipore, 700053.
Neotia (S. N.) & Co., 16, India Exchange Place, 700001.
Niyogi (A. K.) & Co., 25, Rajendra Lala St., 700006.
Nundy Roy & Co., 6, Old Post Office St., 700001.
Ojha (L. K.) & Co., 17-A, Anil Roy Rd., 700029.
Pal & Roy, 2, Church Lane, 700001.
Pal (A. K.) & Co., 19, Bepin Ganguly Rd., 700030.
Pal (D. C.) & Co., 2, Church Lane, 700001.
Pal (M. M.) & Co., 3 & 4, Hare St., 700001.
Pal (N. G.) & Co., 17A, Gobinda Ghosal Lane, 700025.
Pal (S.) & Co., 33, Sova Bazar St., 700005.
Pal (S. C.) & Co., 2, Church Lane, 700001.
Pal (S. K.) & Co., 11, Pollock St., 700001.
Palchaudhuri & Co., 7G, Clive Row, 700001.
Pandey (K.) & Co., 6, Bentinck St., 700001.
Panja (B. K.) & Co., 136/1, B. K. Paul Ave., 700005.
Panja (P. K.) & Co., 100/1B, Taltola Lane, 700014.
Parikh & Co., P-875, Lake Town, 700028.
Pathak & Co., 21/1, Nayan Chand Dutta St., 700006.
Pathak & Ghosh, 12, Chowringhee Square, 700001.
Pathak (H.) & Co., 8, Lyons Range, 700001.
Pathak (K. N.) & Co., 13, Rajendra Mullick St., 700007.
Pathak (S. K.) & Co., 62, Balaram Dey St.
Pathak, (S. N.) & Co., 184, Dharamtolla St., 700013.
Patodi (R. K.) & Co., 43, Zakaria St., 700007.
Patodia (K. P.) & Co., 40, Nimtala Ghat St., 700006.
Patwari & Co., 41, Ezra St., 700001.
Paul (A. M.) & Co., No. 7, Hastings St., 700001.
Paul (A. T.) & Co., 35A, Bechu Chatterjee St.
Paul (B. K.) & Co., 14, Harish Neogi Rd., 700004.
Paul (G. M.) & Co., 309, Bipin Behari Ganguly St., 700012.
Paul (M. R.) & Co., 53, N. Subash Rd., 700001.
Paul (N.) & Co., 3/1, Madam St., 700013.
Paul (S. K.) & Co., 265, B. B. Ganguly St., 700012.
Peat, Marwick, Mitchell & Co., B-4, Gillander House, 700001.
Peter & Harris, 6A, Saklat Place, 700013.
Phani Banerjee & Co., 28-A, Sastitola Rd., 700011.
Poddar (D. P.) & Co., 6-A, Saklat Place, 700013.
Poddar (H. S.) & Co., 3/1, Krishna Laha Lane, 700012.
Poddar (K. S.) & Co., 52, Dr. S. P. Mukherjee Rd., Dum Dum Cantt., 700028.
Poddar (M. P.) & Co., 43/44, Cotton St., 700007.
Poddar (N. K.) & Co., P-3, New C.I.T. Rd., 700012.
Pradhan (D. N.) & Co., 44-A, Wellesley St., 700016.
Pradhan (L.) & Co., 5, Hastings St., 700001.
Pramanick (A.) & Co., 45/2D, Rani Harshmukhi Rd., 700002.
Pramanik (R.) & Co., 20, Balaram Muzumdar St., 700005.
Prasad (H.) & Co., 45, Mahendra Nath Sen Lane, 700040.
Prasad (H. C.) & Co., 9, Harin Bari Lane, 700012.
Prasad (H. L.) & Co., P-47, Shyama Charan Smriti, Tirth Rd., 700053.
Prasad (K.) & Co., 24, R. N. Mukherjee Rd., 700001.
Prasad (S. K.) & Co., 1-B, Old Post Office St., 700001.
Praveen Kapoor & Co., 3A, Chowringhee Place, 700013.
Prayag Prakash Prasad & Co., 26/4A, Armenian St., 700001.
Price, Waterhouse & Co., B-4, Gillander House, 700001.
Price, Waterhouse, Peat & Co., B-4, Gillander House, 700001.
Prodyot Kumar Banerjee & Co., 8, Lyons Range, 700001.
Purohit, (V. N.) & Co., 2, Digamber Jain Temple Rd., 700007.
Raha (N. J.) & Co., 6/2, Madam St., 700013.
Raha (R. C.) & Co., P. 86/E, C.I.T. Rd., Scheme-LII, Entally, 700014.
Rakhit & Co., 54, Chittaranjan Ave., 700012.
Rakhit (B. B.) & Co., 233/1-B, Acharya P. C. Rd., 700004.
Ramesh & Co., 29/3, Ballygunge Park, 700029.
Ramesh C. Gupta & Co., 2, S. N. Banerji Rd., 700013.
Ramesh Jain & Co., 22, Rabindra Sarani, 700001.
Ramesh Mehta & Co., P-8, Dalimtola Lane, 700006.
Rathi & Co., 2, India Exchange Place, 700001.
Rawat & Co., P-36, India Exchange Place, 700001.
Ray (A.) & Co., 13, East Rd., Jadavpur Colony, 700001.
Ray (A. B.) & Co., 62, Bentinck St., 700001.
Ray (A. K.) & Co., 19, Strand Rd., 700001.
Ray & Bhattacharya, 6, Old Post Office St., 700001.
Ray & Chaudhuri, 6, Old Post Office St., 700001.
Ray & Ray, P.O. Box No. 706, 700001.
Ray (B.) & Co., 3, Fancy Lane, 700001.
Ray (B. K.) & Co., 3, Mangoe Lane, 700001.
Ray (B. N.) & Co., 10, Old Post Office St., 700001.
Ray (D.) & Co., 7, Old Post Office St., 700001.
Ray (H. P.) & Co., 17, G. Auddy Rd., Alipore, 700027.
Ray (J. K.) & Co., 23, Hara Chandra Mallick St., 700005.
Ray (S. P.) & Co., 5, Ballygunge Place East, 700019.
Rayajit & Co., P-14, Mission Row Ext., 700001.
Ray Chaudhuri (A.) & Co., 52, Sankaripara Rd., 700025.
Ray Choudhury (N.) & Co., 2, India Exchange Place, 700001.

Ray Choudhury (N. K.) & Co., 111-B, N. Subash Rd., 700001.
Ray Choudhury (P. C.) & Co., 6/1, Saklat Place, 700013.
Ray (E. B.) & Co., 119, Lower Circular Rd., 700001.
Ray Moulik & Co., 3, Mangoe Lane, 700001.
Rekhi & Co., 2, Garstin Place, Calcutta, 700001.
Robin (G.) & Co., 16, G. Chandra Ave., 700013.
Romesdas & Son, 3/1A, Mahendra Rd., 700025.
Roy (A.) & Co., 68-A, Purna Das Rd., 700029.
Roy (A. C.) & Co., 1-B, Old Post Office St., 700001.
Roy (A. K.) & Co., 3A, Pollock St., 700001.
Roy (A. M.) & Co., 1-B, Old Post Office St., 700001.
Roy & Bagchi, 8/2, Hastings St., 700001.
Roy & Co., 1, Mangoe Lane, 700001.
Roy (B.) & Co., 33, Ballygunge Garden, 700019.
Roy (B. M.) & Co., 12, Dalhousie Sq. East, 700001.
Roy (J. M.) & Co., 6, Old Post Office St., 700001.
Roy (K. C.) & Co., 10, Old Post Office St., 700001.
Roy (N. C.) & Co., 7, Old Post Office St., 700001.
Roy (N. K.) & Co., P-39, Princep St., 700013.
Roy (P.) & Co., 1st Floor, 6, Old Post Office St., 700001.
Roy (R. K.) & Co., 1/2-B, Ballygunge Place East.
Roy (R. N.) & Co., 6, Hastings St., 700001.
Roy (S. R.) & Co., 6/1, Saklat Place, 700013.
Roy & Ray, 20, Sadananda Rd., 700026.
Roy Chaudhuri (P.) & Co., 60, Tollygunge Circular Rd.
Roychoudhuri & Co., 244B & C, Vivekananda Rd., 700006.
Roy Choudhury (J. N.) & Co., 22, Canning St., 700001.
Roy Choudhury (A.) & Co., 12, Chowringhee Sq., 700001.
Roy Chowdhury (B.) & Co., 7, Esplanade East, 700001.
Roy Chowdhury (D.) & Co., 357/1/3, Prince Anwar Shah Rd., 700031.
Roy Chowdhury (H. N.) & Co., 197, Amherst St., 700009.
Roy Chowdhury (K. C.) & Co., 12, Dalhousie Sq. (East), 700001.
Roychoudhury (S. M.) & Co., 3, Mangoe Lane, 700001.
Roy Chowdhury (T. K.) & Co., 8/2, Hastings St., 700001.
Roy Chowdhury & Moitra, 8/2, Hastings St., 700001.
Roy Moulik (S. K.) & Co., 21, Old Court House St., 700001.
Rungta (R. A.) & Co., 30, M. Chatterji Lane, 700007.
Rustagi & Co., P-18, New C.I.T. Rd., 700012.
Rustgi (S. N.) & Co., 24, Amratalla Lane, 700001.
Sachar & Co., 8/2, K. S. Roy Rd., 700001.
Saha & Majumder, 79/4/N, Raja Naba Krishna St., 700005.
Saha & Saha, 828A/1, Lake Town, 700055.
Saha & Co., 8-C, Durga Rd., 700007.
Saha (B. G.) & Co., 1, British Indian St., 700001.
Saha (B. R.) & Co., 504, Biren Roy Rd. (East), 700008.
Saha (H.) & Co., 75, A. Saha Rd., Patipukur, 700048.
Saha (H. D.) & Co., "Ushalaya", School Rd., 700059.
Saha (H. K.) & Co., 1, N. Subash Rd., 700001.
Saha (I. M.) & Co., 6, Old Post Office St., 700001.
Saha (K. K.) & Co., 8-B, Lal Bahar St., 700001.
Saha (M.) & Co., P-36, India Exchange Place Ext., 700001.
Saha N. & Co., 21, Sooterkin St., 700013.
Saha (N. C.) & Co., 8, Krishna Mallick Lane, 700037.
Saha (R.) & Co., 8/2, Hastings St., 700001.
Saha (S.), 33/E, Raja Nabo Krishna St., 700005.
Saha (S. P.) & Co., 28/6, Gariahat Rd., South, 700031.
Saha (U. C.) & Co., 9/2, N. N. Ghosh Lane, 700040.
Saha Sen Gupta & Co., 1, Bonfield Lane, 700001.
Sahaya & Co., 61, Bentinck St., 700001.
Sahgal (M. L.) & Co., 2, G. Chandra Ave., 700013.
Saigal & Saigal, 36, Lansdown Rd., 700020.
Sain (B.) & Co., 10, Old Post Office St., 700001.
Saks & Co., 5, Dharmatolla St., 700013.
Sakti Sen & Co., 2, Church Lane, 700001.
Salarpuria & Co., 15, G. Chandra Ave., 700013.
Salarpuria Jajodia & Co., 7, Chittaranjan Ave., 700013.
Samanta (S.) & Co., 8/2, K. S. Roy Rd., 700001.
Sambhu Chatterjee & Co., 112, Amherst St., 700009.
Sambhu N. De & Co., 1-B, Old Post Office St., 700001.
Samir Ghosh & Co., 10, K. S. Roy Rd., 700001.
Samir Mitra & Co., 4A, M. Bhattacharjee St., 700004.
Samuel (C. S.) & Co., 9, Shakespeare Sarani, 700016.
Sanat K. Mitra & Co., P-114, C.I.T. Rd., 700010.
Sanjoy Ghose & Co., 88, Dr. Sundari Mohan Ave., 700014.
Sankar Aiyar (V.) & Co., 4-D, Dalhousie Sq. East, 700001.
Sankar Dutta & Co., 39/1, Suburbun School Rd., 700025.
Santhalia (B. L.) & Co., 14, Princep St., 700013.
Santi Kumar Bose & Co., 6B, Bentinck St., 700001.
Sanyal & Samanta, 6-B, Bentinck St., 700001.
Sanyal (A. K.) & Co., 15/1, Nilmoni Dutta Lane, 700012.
Sanyal (G.) & Co., 6, Old Post Office St., 700001.
Saraf (C. L.) & Co., 12, Dalhousie Sq. East, 700001.
Saraf (P. L.) & Co., 161/1, M. G. Rd., 700007.
Saraogi & Co., 31-A, Banstolla Lane, 700007.
Saraogi & Saraogi, 36, Ezra St., 700001.
Saraogi Jain & Co., 4, Synagogue St., 700001.
Sarat Mukherjee & Co., 2/4B, Hindusthan Rd., 700029.
Sarkar & Co., 14, Nand Ram Sen St., 700005.
Sarkar (A.) & Co., 185, Bepin Behari Ganguli St., 700012.
Sarkar (A. P.) & Co., 116/1, M. Gandhi Rd., 700007.
Sarkar (K. C.) & Co., Dalhousie Sq., 700001.
Sarkar (M. L.) & Co., Flat-7, 51, Santoshpur Ave., 700032.
Sarkar (N.) & Co., 21, Sooterkin St., 700012.
Sarkar (P.) & Co., 44/8, B. T. Rd., 700050.
Sarkar (R.) & Co., 5, Jay Bhattacherjee Lane, 700001.
Sarkar (T. K.) & Co., A27, Ramgarh, 700047.
Sarkar Raychoudhuri & Co., 3, Fancy Lane, 700001.
Sarkar (P. B.) & Co., 47B, Pottery Rd., 700015.
Sarkar & Mukherjee, 22, Canning St., 700001.
Sarkar, Mitra & Mitra, 19, Strand Rd., 700001.
Sarma & Co., 8/2, Kiron Sankar Roy Rd., 700001.
Satnaliwala (M.) & Co., 62, Bentinck St., 700001.
Saxena & Co., 63, Radhabazar St., 700001.
Sen & Khan, 24, Sankaripara Rd., 700025.
Sen & Lahiri, 14/2, Old China Bazar St., 700001.
Sen & Sen, 107, Amherst St., 700009.
Sen (B.) & Co., 64, Lake Ave., 700055.
Sen (B. K.) & Co., 11, Old Post Office St., 700001.
Sen (B. N.) & Co., 36/1-B, Beleghata Main Rd., 700010.
Sen (C. R.) & Co., 113, S. P. Mukherjee Rd., 700026.
Sen (D. C.) & Co., 2, Church Lane, 700001.
Sen (D. K.) & Co., 28/A, N. Bhattacharjee Lane, 700026.
Sen (D. P.) & Co., 7, Hastings St., 700001.
Sen (J.) & Co., 5, Hastings St., 700001.
Sen (M. R.) & Co., 26-A, M. Tagore Rd., Dhakuria, 700031.
Sen (N. K.) & Co., 2, India Exchange Place, 700001.

Sen (N. P.) & Co., 38, Girish Mukherjee Rd., 700001.
Sen (P.) & Co., 10, Old Post Office St., 700001.
Sen (S.) & Co., 9, K. S. Roy Rd., 700001.
Sen (S. K.) & Co., 2A, Chowringhee Sq., 700001.
Sen (S. M.) & Co., 23-A, N. Subash Rd., 700001.
Sen (S. S.) & Co., 8, Commerce House, 2, G. Chandra Ave., 700013.
Sengupta & Sengupta, 10, Old Post Office St., 700001.
Sengupta & Co., 33-B, Kalighat Rd., 700025.
Sen Gupta (A.) & Co., 28/1-A, Gariahat Rd., 700019.
Sengupta & Paul, 10, Govt. Place East, 700001.
Sen Gupta (D. C.) & Co., 10, Clive Row, 700001.
Sen Gupta (J. L.) & Co., 70A, Dharamtolla St., 700013.
Sen Gupta (M.) & Co., 28/1A, Gariahat Rd., 700019.
Sen Gupta (N.) & Co., 20, Strand Rd., 700001.
Sengupta (S.) & Co., 10, Old Post Office St., 700001.
Sengupta (S. M.) Sons, 10, Hastings St., 700001.
Sen Majumder & Co., 9, Lall Bazar St., 700001.
Set (S. K.) & Co., 1, J. Mohan Ave., 700006.
Seth (S. R.) & Co., 12, A. Mukherjee Rd., 700020.
Sethia (B. M.) & Co., 2, Royal Exchange Place, 700001.
Setna (N. J.) & Co., 29, Park Mansion, Park St., 700016.
Sett (A. K.) & Co., 6, R. Bhattacharjee Lane, 700006.
Sett (M. K.) & Co., 70B, Ballygunge Place, 700019.
Shah (B. D.) & Co., 61, Mcleod St., 700017.
Shah (B. H.) & Co., 178-A, H. Mukherjee Rd.
Shah (K.) & Co., 3, Albert Rd., 700017.
Shah (M. P.) & Co., 135, Canning St., 700001.
Shah (N. L.) & Co., Biplabi R. B. Basu Rd., 700001.
Shah (N. N.) & Co., 94, Lower Chitpur Rd., 700007.
Shah (O. P.) & Co., 46C, Chowringhee Rd., 700016.
Shah (R. C.) & Co., 1/1, Braunfeld Row, 10, Alipore, 700027.
Shah (R. K.) & Co., 56B, Jatindra Mohan Ave., 700005.
Shah & Co., 10, Old Post Office St., 700001.
Sambhu Kumar Jain & Co., 62, Nabin Seth Rd., 700007.
Sharat Jain & Co., 10-C, Southern Ave., 700029.
Sharma (H. P.) & Co., 6, Old Post Office St., 700001.
Sharma (J. M.) & Co., P-17, New C.I.T. Scheme LVII, Indian Exchange Extn., 700012.
Sharma (K.) & Co., 31/2, Malanga Lane, 700012.
Sharma (N. D.) & Co., 7/2, Ritchie Rd., 700019.
Sharma (N. K.) & Co., 180, Mahatma Rd., 700009.
Sharma (P.) & Co., 49/C, Beliaghata Main Rd., 700010.
Sharma (P. N.) & Co., 101-F, Block "F", New Alipore, 700053.
Sharma (S. M.) & Co., 24, N. Subash Rd., 700001.
Sharma (S. S.) & Co., 44D, Hari Ghosh St., 700006.
Sharma Rustagi & Co., P-17, New C.I.T. Rd., 700012.
Sharma Gautam & Co., 19, R. N. Mukherjee Rd., 700001.
Shaw (G. C.) & Co., 246, Acharya P. C. Rd., 700006.
Sheshadri & Seetharam, P-133/B, Lake Terrace, 700029.
Sheshadri (N. S.) & Co., P-133/B, Lake Terrace, 700029.
Shibnath Bhattacharya & Co., 19, R. N. Mukherjee Rd., 700001.
Shrimali (H. R.) & Co., 7, Chaitanna Sen Lane, 700012.
Shrishrimal (V.) & Co., 401/7A, Upper Chitpur Rd., 700007.
Shroff (B. K.) & Co., 23A, N. Subash Rd., 700001.
Singh (A. K.) & Co., 7/2, Ananda Neogi Lane, 700003.
Singh (C.) & Co., 26/4A, Armenian St., 700001.
Singh (R. S.) & Co., 7, Shambhu Chatterjee St., 700012.
Singhal (B. L.) & Co., 2, Chowringhee Rd., 700013.
Singhania & Co., 1B, Old Post Office St., 700001.
Singhania (B. K.) & Co., 8, R. Chatterji St., 700009.
Singhania (N. M.) & Co., 2/1, Madhav Seth Lane, 700007.
Singhania (S. K.) & Co., 19-A, Chowringhee Rd., 700013.
Singhee (K. L.) & Co., 14/1/1A, Jackson Lane.
Singhi & Co., 1-B, Old Post Office St., 700001.
Sinha (M. K.) & Co., 6/1, Saklat Place, 700013.
Sinha (N. N.) & Co., Block 'A', P-287, Bangur Ave., 700055.
Sinha (R. B.) & Co., 17A, Anil Roy Rd., 700029.
Sinha (R. L. P.) & Co., 17, Bhawani Dutt Lane, 700007.
Sinha Roy (A. K.) & Co., 2, Clive Ghat St., 700001.
Sinha Roy (S. K.) & Co., Strand Rd., 700001.
Sircar Gupta & Co., 3/1, Mangoe Lane, 700001.
Smarandeb Mukherjee & Co., 299, Vivekanand Rd., 700006.
Smith & Paterson, P-39, Princep St., 700013.
Som (M. C.) & Co., 11, Old Post Office St., 700001.
Soni Chatrath & Co., 3, Chowringhee Approach, 700013.
Sonthalia (R. P.) & Co., 135, A, Biplabi R. B. Basu Rd., 700001.
Sreen (Y. P.) & Co., 56E, Block D, New Alipore, 700053.
Srimati & Co., 49/11/D, Hindusthan Park, 700029.
Srinivasan (P. R.) & Co., 67, Belvedere Estate, Alipore, 700027.
Subhen Sanyal & Co., P-228, Bangur Ave., 700055.
Subramanian (P. S.) & Co., 49, Jatin Das Rd., 700029.
Subrata (B.) & Co., 2/E, Brindaban Paul Lane, 700003.
Subrata Basu & Co., 6, K. S. Roy Rd., 700001.
Sukumar Mukherjee & Co., 7, Hastings St., 700001.
Sultania (G. L.) & Co., 31-A, Banstola Lane, 700007.
Sunirmal Dutt & Co., 5 & 6, Hare St., 700001.
Sur (S. B.) & Co., 65B, Shambhu Babu Lane, 700014.
Surelia & Co., P. 36, India Exchange Place, 700001.
Sureka & Co., 171, Chittaranjan Ave., 700007.
Sureka (G. P.) & Co., 5/1, Clive Rd., 700001.
Suresh Gupta & Co., 162/13/1, Lake Gardens, 700045.
Sasrut Mukherji & Co., 8/2, Hastings St., 700001.
Swaminathan (T. R.) & Co., 53, Southern Ave., 700029.
Taparia & Co., Mehta Bldg., 55, Biplabi Rash B. B. Rd., 700001.
Taparia (J. K.) & Co., 55, Canning St., 700001.
Tarmaster & Co., 3, Chowringhee Approach, 700013.
Tekriwal (B. K.) & Co., 5, Southern Ave., 700026.
Tekriwala (B. N.) & Co., 176, Muktaram Babu St., 700007.
Thakur & Bhansali, 60, Bentick St., 700001.
Thakur (B.) & Co., 104, Madan Mohan Burman St., 700007.
Thakur (R. N.) & Co., 60 Bentinck St., 700001.
Thakur (S. C.) & Co., 14/A, Braj Nath Mitra Lane, 700009.
Thakur Vaidyanath Aiyar & Co., 2, India Exchange Place, 700001.
Thaper (M. L.) & Co., 100/18, Alipore Rd., 700027.
Tibrewal & Co., 20, M. Devendra Rd., 700007.
Todi (L. N.) & Co., 14, Princep St., 700013.
Todi (M. G.) & Co., P-9, New C.I.T. Rd., 700012.
Tondon (P.) & Co., 22/1F, Chakrabere Rd. (South), 700025.
Tulshyan (N. L.) & Co., 2, Madhav Seth Lane, 700007.
Tulsian (O. P.) & Co., 29A, Sir H. Goenka St., 700007.
Upadhyay & Co., 23A, N. Subash Rd., 700001.
Vaidyanatha Iyer (T. S.) & Co., 123-A, Rash Ave., 700029.

Varendra Lalchand Varma & Co., 23, Convent Rd., 700014.
Vasant Bagadthey & Co., 35, Lake Avenue.
Verma (B. L.) & Co., 10, Adi Banstalla Lane, 700007.
Vidyarthi & Co., "Kamdhenu", 4A, Roy St., 700020.
Vijay Kumar & Co., 40, Nalin Sarkar St., 700004.
Vimal Agrawal & Co., P-549, Block 'N', New Alipore, 700053.
Viswanathan (M. R.) & Co., P-534, R. B. Roy Rd. Ext., 700001.
Yadav (M. L.) & Co., 11, Old Post Office St., 700001.
Zaveri & Co., 37, Armenian St., 700001.

DELHI — Chartered Accountants

Adish Chand Jain & Co., 165, State Bank Colony, 110033.
Aditya (V. P.) & Co., A/9, R. P. Bagh, 110007.
Agal & Co., 29A/1, A. Ali Rd., 110001.
Agarwal (B. S.) & Co., 20, Ansari Rd., Daryaganj, 110006.
Agarwal (H. O.) & Co., 4320/3, Daryaganj, 110006.
Agarwal (K. M.) & Co., 36, N. Subash Marg, Daryaganj, 110006.
Agarwal (M.) & Associates, C-11, Green Park Ext., Daryaganj, 110006.
Agarwal (R. K.) & Co., 109-A, Kamla Nagar, 110007.
Agarwal (S.) & Co., F-68, Lajpat Nagar I, 110034.
Agarwal (S. C.) & Co., 3, U. A., Flat No. 6, Jawahar Nagar, 110007.
Agarwal (S. D.) & Co., 1397, Chandni Chowk, 110006.
Agarwal (S. N.) & Co., 3/5, East Patel Nagar, 110008.
Agarwal (S. P.) & Co., 25/4, Block A, Connaught Place, 110001.
Agarwal (V. N.) & Co., Goel Bhawan, 152-D, Kamla Nagar, 110007.
Agarwala (K. R.) & Co., 4/14A, A. Ali Rd., 110001.
Aggarwal & Co., 2/7, Ansari Rd., Daryaganj, 110006.
Aggarwal (A. P.) & Co., 4/5B, A. Ali Rd., 110001.
Aggarwal (B.) & Co., 48, Janpath, 110001.
Aggarwal (G. D.) & Co., 3/13-B, A. Ali Rd., 110001.
Aggarwal (K. A.) & Co., C-499, Susheela St., Majlish Park, 110033.
Aggarwal (P. C.) & Co., 1368, Kashmere Gate, 110006.
Aggarwal (R. K.) & Co., 5/4996, Sant Nagar, Karol Bagh, 110005.
Aggarwal (S. D.) & Co., 1368, Kashmere Gate, 110006.
Aggarwal (S. K.) & Co., 5A/3, Kailash Sadan, Jawahar Nagar, 110007.
Aggarwal (S. N.) & Co., 4152, Naya Bazar, 110006.
Aggarwal Gupta & Co., Brar House, Bara Tooti, Sadar Bazar, 110006.
Aggarwal Jain & Co., 20, Ansari Rd., Daryaganj, 110006.
Aggarwal Nanda & Co., 4/5B, A. Ali Rd., 110001.
Agiwal & Associates, Block No. 26, Plot No. 1/11, Shaktinagar, 110007.
Agrawal & Associates, 739, Chandni Chowk, Opp. Town Hall, 110006.
Agrawal (G. P.) & Co., 4772, Ram Bazar, Cloth Market, 110006.
Agrawal (H. P.) & Co., A-69, South Ext., Part II, 110049.
Agrawal (M. C.) & Co., 128, Punjab Exchange, Katra Baryan, Fatehpur, 110006.
Agrawal Bansal & Associates, C-4/115, Safdarjung Enclave, 110016.
Ahluwalia (R. S.) & Co., F-106, Rd. No. 2, Andrews Ganj, 110049.
Ahuja Associates, F-39, Desh Bandhu Gupta Market, 110005.
Ahuja (G. K.) & Co., 1072, Kashmere Gate, 110006.
Ahuja (H. S.) & Co., 61-H, Govind Mansion, Connaught Circus, 110001.
Ahuja (J. S.) & Co., 6-F, Jangpura, 110014.
Ahuja (M. R.) & Co., 208, Gupta Bldg., Nalwa St., Paharganj, 110055.
Ahuja (R. L.) & Co., E-192, Ashok Vihar, 110007.
Ahuja (S. K.) & Co., 1080, Kashmere Gate, 110006.
Ahuja Sud & Co., 113, Daryaganj, 110006.
Ailawadi (V. K.) & Co., 53/3, Shumran Lines, Delhi Cantt., 110010.
Aiyar & Co., 607, Akashdeep, Connaught Place, 110001.
Aiyar Sethi & Co., 3271, D. B. Gupta Rd., Paharganj, 110055.
Aiyar (Y. K.) & Co., E-95, East of Kailash, 110024.
Ajay Gauba & Co., C 80, South Extn., Part II, 110049.
Ajmera & Co., Jamma Bhawan, A-14/3, A. Ali Rd., 110001.
Ajmera (P. L.) & Co., H. 28, Green Park Ext., 110016.
Alagh (M. S.) & Co., 23, South B.H.S., Sadar Thana Rd., 110006.
Alam Agarwal & Co., 4152, Naya Bazar, 110006.
Alam & Co., D-22, Green Park, 110016.
Alexander Grant, Tanslev Witt, L-41, Connaught Circus, 110001.
Anand & Co., 107, Gali Kandle Kashan, Fatehpuri, 110006.
Anand (B. K.) & Co., Anand Villa, Nizamuddin (East), 110013.
Anand (M. P.) & Co., 1-C/43, Rohtak Rd., 110005.
Anand (S. K.) & Co., R-29, South Ext. II, 110049.
Anand (V. D.) & Co., 67/9, Rohtak Rd., 110005.
Aneja (K.) & Co., 4890, Gali Pardewali, Nawabganj, 110006.
Aneja (S. K.) & Co., 2-E/6, Jhandewalan Ext., 110055.
Anil Arora & Co., 29-B, Block Connaught Place, 110001.
Anil Gupta & Co., 14A, East Azad Nagar, 110051.
Anil K. Agarwal & Co., B-10/A, Mandir Rd., Krishna Nagar, 110051.
Anil Malhotra & Co., R-632, New Rajinder Nagar, 110005.
Anil Mehra & Co., B-39, Connaught Place, 110001.
Anmol (R.) & Co., 8-B, Shri Ram Institute, 19, Univ. Rd., 110007.
Arora (B. L.) & Co., 2/7, Ansari Rd., Daryaganj, 110006.
Arora (D. R.) & Co., Ahimsa Mandir Bldg., 1, Ansari Rd., Daryaganj, 110006.
Arora (G. S.) & Co., Govt. Quarter No. 379-E, Karol Bagh, 110005.
Arora (H. B.) & Co., E/141-142, B. K. Dutt Colony, Near Jor Bagh, 110003.
Arora (J. K.) & Co., J-6/136, Rajouri Gardens, 110027.
Arora (M. L.) & Co., 12/90, Connaught Circus, 110001.
Arora (R. K.) & Co., J-6/136, Rajouri Gardens, 110027.
Arora (S. N.) & Co., 79, G. B. Rd., 110006.
Arren (K. K.) & Co., 7348, Prem Nagar, Near Birla Cotton Mills, 110007.
Arun Anand & Co., 1006, Akash Deep, 26A, Barakhamba Rd., 110001.
Arun K. Jain & Co., 9-B, Jindal House, A. Ali Rd., 110001.

Arya (V. K.) & Co., Staff Quarter No. 17, North Ave., 110001.
Ashok Kapoor & Co., 5249, Shradhanand Marg, Ajmere Gate, 110006.
Ashok Kumar & Co., F/29, South Ext., Part I.
Ashok Nanda & Co., C-22, Defence Colony, 110003.
Atma Ram Bajaj & Co., A-9, R. P. Bagh, 110007.
Bagai & Seth, 107, Jeevan Lodge, L-Block, Connaught Circus, 110001.
Bagla (O. P.) & Co., 4772, Ram Bazar, Cloth Market, 110006.
Bahl & Co., No. 5, New Flats, Opp. Teliwara, Qutab Rd., 110006.
Bahl (K. K.) & Co., 454, Moti Bagh South, 110021.
Bahl (R. N.) & Co., Regal Bldg., Parliament St., 110001.
Bahl (S. C.) & Co., III/79, Sham Singh Bldg., Gopi Nath Bazar, Delhi Cantt., 110010.
Bahl (V.) & Co., 140, Malcha Marg, Chanakyapuri, 110011.
Bahl, Grover, Mohan & Kumar, 64, Regal Bldg., 110001.
Baid (D. R.) & Co., D-2, South Ext., Part II, 110049.
Bajaj & Co., 12A/1, W.E.A., Karol Bagh, 110005.
Bajaj (A. L.) & Co., 65/16, Rohtak Rd., Karol Bagh, 110005.
Bajaj (J. K.) & Co., G-27, Nizamuddin (West), 110013.
Bajaj (R. S.) & Co., H/458, New Rajinder Nagar, 110005.
Bakshi (P. N.) & Co., 5A/34 Tilak Nagar, 110027.
Bankey (J. M.) & Co., 1767, Jagan Nath Bldg., Bhagirath Palace, Chandni Chowk, 110006.
Bansal (G. S.) & Co., 359, Kucha Ghasi Ram, Chandni Chowk, 110006.
Bansal (S. N.) & Co., C-4/115, Safdarjung Devpt. Scheme, Near Hauz Khas, 110016.
Bansal (S. R.) & Co., 8/94, Karol Bagh, 110005.
Bansal Sirha & Co., 6A/58, W.E.A., Karol Bagh, 110005.
Barry & Co., 1687, Arya Samaj Rd., 110005.
Basant Ram & Sons, 21, Lakshmi Bldg., A. Ali Rd., 110001.
Basu (G.) & Co., 15, A. Ali Rd., 110001.
Batliboi (S. R.) & Co., Himalaya House, 23, Curzon Rd., 110001.
Batra & Co., 1/18, Asaf Ali Rd., 110001.
Batra (A. K.) & Co., 1033/22, Lodi Colony, 110003.
Batra (J. N.) & Co., 15, Jaina Bldg., Roshanara Rd., 110006.
Baweja (A.) & Co., 233, Ajmere Gate, 110006.
Bensal (R. S. K. C.) & Co., 283, Bara Bazar, Shahdra Mandi, 110032.
Bhagat (S. C.) & Co., 3/19, Vijay Nagar, 110009.
Bhalla (J. C.) & Co., 2772, Kashmere Gate, 110006.
Bhandari (G. R.) & Co., A-187, Defence Colony, 110003.
Bhandari (M. C.) & Co., D-208, Defence Colony, 110003.
Bharat K. Gupta & Co., 2428, Chawri Bazar, 110006.
Bhargava (B. R.) & Co., Bhrigu Niwas, Wazir Singh St., Chuna Mandi, Pahar Ganj, 110001.
Bhargava (C. B.) & Co., Satsang Bhawan, 7/24, Darya Ganj, 110006.
Bhasin (C. M.) & Co., E-29, South Ext., Part II, 110049.
Bhasin (R. P.) & Co., 14A/9, W.E.A., Karol Bagh, 110005.
Bhatia (A. S.) & Co., B-6, Flat 1, Tirath Ram Bldg., Asaf Ali Rd., 110001.
Bhatia (D.) & Co., Lakshmi Insurance Bldg., Ajmere Gate Ext., A. Ali Rd., 110001.
Bhatia (P. N.) & Co., 1470, Maliwara Crossing, Nai Sarak 110006.
Bhatia & Rallan, 25, Lakshmi Insurance Bldg., A. Ali Rd., 110001.
Bhatia (S. K.) & Co., 122, Jor Bagh, 110003.
Bhatiani (C. J.) & Co., 92, Khurshid Market, Sadar Bazar, 110006.
Bhatnagar (C. S.) & Co., 64, Regal Bldg., 110001.
Bhatnagar Jauhari & Co., 1684, Arya Samaj Rd., Karol Bagh, 110005.
Bhawanesh C. Kapoor & Co., 35/19, East Patel Nagar, 110008.
Bhim Sain & Co., E-270, Greater Kailash II, 110048.
Bhomia & Co., Bhagirath Palace, 1701, Jai Krishan St., Chandni Chowk, 110006.
Bhusan Associates, Shahdara, 1/550, G. T. Rd., 110032.
Bhushan (B.) & Co., 2602/4, Beadanpura, Karol Bagh, 110005.
Bhuwania (S.S.) & Co., D-283, Defence Colony, 110003.
Bidani (S. K.) & Co., 46/15, East Patel Nagar, 110008.
Bidkar (A. T.) & Co., Flat No. 20, Gandhi Smarak Nidhi Colony, Rajghat, 110001.
Bindal Goel & Co., 4320/3, Ansari Rd., Daryaganj, 110006.
Brij & Associates, 122, Jor Bagh, 110003.
Brij & Bhatia Associates, 122, Jor Bagh 110003.
Broughton & Co., 69, Shahjehan Rd., 110001.
Buttan (G. K.) & Co., 1469, Suiwalan, Daryaganj, 110006.
Chadha (A. N.) & Co., C-2/14, Safdarjung Devpt. Area, 110016.
Chadha (H. K.) & Co., 21, Lakshmi Insc. Bldg., A. Ali Rd., 110001.
Chadha (H. S.) & Co., 46/3, East Patel Nagar, 110008.
Chadha (J. S.) & Co., 5242, Shardhanand Marg, Ajmere Gate, 110006.
Chadha (S. K.) & Co., C/o Hotel Palace Hights, D-Block, Connaught Place, 110001.
Chadha (T. R.) & Co., Kuthiala Bldg., B-30, Connaught Place, 110001.
Chandiok & Guliani, 5A/10, Ansari Rd., Daryaganj, 110006.
Chandiwala (R. C.) & Co., 13, Daryaganj, 110006.
Chandna (K. B.) & Co., Connaught House, Connaught Place, 110001.
Chandwani (I. K.) & Co., E C-10, Inderpuri, Pusa Institute, 110012.
Charanjit (S.) & Co., 16, Pusa Rd., 110005.
Chari (K. S.) & Co., Rajah Nivas, House No. 5639/78, Regharpura, Karol Bagh, 110005.
Chari (R. K.) & Co., 543, Sector 4, Ramakrishnapuram, 110022.
Charsi Darshan & Co., R-266, Greater Kailash No. 1, 110048.
Chatrak (B. M.) & Co., 125, Jor Bagh.
Chaturvedi (M. L.) & Co., 827, Kutcha Pati Ram, 110006.
Chaudhri (A. D.) & Co., 6/18, West Patel Nagar, 110008.
Chaudhry (H. K.) & Co., 7226/XV, Qutab Rd., 110055.
Chaudhury (B. K.) & Co., 1-C, Bhagirath Palace, Chandni Chowk, 110006.
Chawla (Y. P.) & Co., 37/4077, Regharpura, Karol Bagh, 110005.
Chhabra (S. K.) & Co., 9-N, Munshi Bldgs., Connaught Circus, 110001.
Chhabra (V. S.) & Co., 7, Punjab Exchange Bldgs., Katra Baryan, Fatehpuri, 110006.

Chhabra Jain & Co., N-4, Kirti Nagar, 110015.
Chhabra Mittal Jain & Co., 7, Punjab Exchange Bldg., Katra Baryan, 110006.
Chhatwal (A. N.) & Co., 195/3, Krishna Bhawan, Subash Rd., Gandhi Nagar, 110031.
Chopra & Bosu, 7226/XV, Qutab Rd., 110055.
Chopra (I. K.) & Co., 54-H, IV, Lajpat Nagar, 110014.
Chopra (J. L.) & Co., 37/4085, Regharpura, Karol Bagh, 110005.
Chopra (P. K.) & Co., N-84, Connaught Circus, 110001.
Chopra (R. K.) & Co., Ramjas House, 4/11, Asaf Ali Rd., 110001.
Chopra (S. K.) & Co., 31, F-Block, Radial Rd. No. 7, Connaught Place, 110001.
Chopra Robson, Morrow & Co., 31-F, Connaught Place, 110001.
Choudhry (H. L.) & Co., 1/29, Jangpura Ext., 110014.
Chowdhri (B.) & Co., C-20, Nizamuddin Ext. East, 110013.
Chowdhuri (D.) & Co., 5A/153, W.E.A., Karol Bagh, 110005.
Chug Ahuja & Co., D-35, East of Kailash, 110024.
Dadoo (R. S.) & Co., Khunka Mansion, 5-A/4-B, Ansari Rd., Daryaganj, 110006.
Dadu (O. P.) & Co., 5A/4B, Ansari Rd., Daryaganj, 110006.
Dasgupta (S. M.) & Co., A/13, South Ext. Part II, 110049.
Dassgupta & Co., Room No. 1, Barar House, Bara Tooti, Sadar Bazar, 110006.
Dass Mathur (R. C.) & Co., 1893/1/F, Chandni Chowk, Opp. Dariba Kalan, 110006.
Datta (M. G.) & Co., G1/62, G. Nizamuddin West, 110013.
Dawar (H. C.) & Co., 61/12, Ramjas Rd., Karol Bagh, 110005.
Deepak Mathur & Co., 1867, Havilijugal Kishore, Chandni Chowk, 110006.
Dey (N.) & Co., A-367, Moti Bagh I, 110023.
Dhamija (T. C.) & Co., 3/5, East Patel Nagar, 110008.
Dhariwal & Co., 9, N. Subash Marg, 110006.
Dhawan (P. C.) & Co., 4A/27, Rajinder Nagar, 110005.
Dhawan (S. N.) & Co., C-37, Connaught Place, 110001.
Dhawan (V. K.) & Co., 31/19, East Patel Nagar, 110008.
Dhawan Dinodia & Co., C-37, Connaught Place, 110001.
Dhawan Dinodia & Bhalla, C-37, Connaught Place, 110001.
Dhawan Nagrath & Co., 17, Faiz Bazar, Daryaganj, 110006.
Dhingra (S. M.) & Co., J-9/17, Rajouri Garden, 110027.
Dial & Co., 1789, Dariba Kalan, Chandni Chowk, 110006.
Dingliwala (S. S.) & Co., 3977, Gali Ahiram, Bahadur Garh Rd., 110006.
Dinodia (S. R.) & Co., C-37, Connaught Place, 110001.
Dua (M. S.) & Co., 157, Laxmibai Nagar, 110023.
Dugal (K. C.) & Co., H 466, New Rajinder Nagar, 110005.
Dugar & Co., 6024, Shanti Niketan, 46, U.A., Jawahar Nagar, 110007.
Dureja (G. K.) & Co., B-13/3, Ramesh Nagar, 110015.
Dutt Mittal & Co., 5662/78, Ghodbunder Rd., 110006.
Emmkayko, 8A/34, W.E.A., Karol Bagh, 110005.
Eskay & Associates, 1/1220, Mohol Saraj, Kashmere Gate, 110006.
Ess Dee & Co., G-2/12, Malviya Nagar, 110017.
Ferguson (A. F.) & Co., Scindia House, Curzon Rd., Post Box No. 24., 110001.
Ford, Rhodes Parks & Co., A-28, South Ext. Part II, 110049.
Furhat (S. L.) & Co., 6/2, Tilak Nagar, 110018.
Gadh (S. K.) & Co., 3A/3, A. Ali Rd., 110001.
Gadi (R. N.) & Co., C-24, Greater Kailash I, 110048.
Gambhir (H.) & Co., 4/6, D. B. Gupta Rd., Pahar Ganj, 110055.
Gambhir (J. A.) & Co., South Patel Nagar, 110008.
Gambhir (P. P.) & Co., J-9, Kailash Colony, 110014.
Gandhi (K.) & Co., S-50, Greater Kailash, 110048.
Garg (G. R.) & Co., 1687, Arya Samaj Rd., Karol Bagh, 110005.
Garg (J. L.) & Co., 1899, Chandni Chowk, Opp. Dariba Kalan, 110006.
Garg (J. N.) & Co., 6340, Block-7, Dev Nagar, Karol Bagh, 110005.
Garg (M. L.) & Co., 739, Chandni Chowk, Opp. Town Hall, 110006.
Garg (N. C.) & Co., E-61, Connaught Place, 110001.
Garg (S. P.) & Co., 9992/1, Gulati Bldg., Sarai Rohela, New Rotak Rd., 110005.
Garg (S. K.) & Co., C/o Central Bank of India, Gole Market, 110001.
Garg (V. N.) & Co., C-1/15, Safdarjung Devpt. Area, 110016.
Ghanshyam & Co., 434, Kucha Brij Nath, Chandni Chowk, 110006.
Ghei (K. K.) & Co., 3-C/28, New Rohtak Rd., 110005.
Goel (A. P.) & Co., 3323, Jatwara, Daryaganj, 110006.
Goel (J. P.) & Co., 1E/4, Jhandewalan Ext., 110055.
Goel (P. K.) & Co., 4320/3, Ansari Rd., Daryaganj, 110006.
Goel (R. A.) & Associates, 2141, Tilak Bazar, 110006.
Goel Garg & Co., 1899, Chandni Chowk, Opp. Dariba Kalan, 110006.
Goinka (P. D.) & Co., 20/2805, Beadonpura, Karol Bagh, 110005.
Gopal & Associates, 102, Daryaganj, 110006.
Gopal Krishan & Co., D-12, Lajpat Nagar III, 110024.
Goswami (M. K.) & Co., 40/3, East Patel Nagar, 110008.
Goswami (P. D.) & Co., R-849, New Rajinder Nagar, 110005.
Goyal (K.) & Co., 7A/55, W.E.A., Karol Bagh, 110005.
Goyal (S. N.) & Co., F-4/14, Model Town, 110019.
Goyal (T. C.) & Co., 63, Model Basti, 110005.
Goyal Sharma & Co., 25/4, Block A, Connaught Place, 110001.
Grish & Co., 50/2-3, Hanuman Rd., 110001.
Grover (N. J.) & Co., 46 75/A-21, Ansari Rd., Daryaganj, 110006.
Guha Roy (C. R.) & Co., 16F, Jangpura Ext., 110014.
Gulati (R. K.) & Co., D-55, Amar Colony, Lajpat Nagar, 110024.
Gulati (S. M.) & Co., 7/6, Roop Nagar, 110007.
Gupta & Associates, E-3/47, Hauzkhas Enclave, 110016.
Gupta & Gupta, 4B, Ansari Rd., Daryaganj, 110006.
Gupta & Mahajan, 1F/2, Jhandewalan Ext., 110055.
Gupta (C. B.) & Co., 5BC-11, New Rohtak Rd., 110005.
Gupta (G. D.) & Co., B-1/29-30, Model Town, 110009.
Gupta (H. B.) & Co., 7/29, South Patel Nagar, 110008.
Gupta (I. C.) & Co., 4 A/14, A. Ali Rd., 110001.
Gupta (J. K.) & Co., House No. 4662, 21, Daryaganj, 110006.
Gupta (J. L.) & Co., 2339, Chuna Mandi, Pahar Ganj, 110001.

Gupta (J. P.) Associates, 7/7, D. B. Gupta Rd., Pahar Ganj, 110055.
Gupta (K. B.) & Co., 96, Chawri Bazar, 110006.
Gupta (K. N.) & Co., 2496, Dharampura, 110006.
Gupta (K. S.) & Co., II/1185, Kucha Mahajani, Chandni Chowk, 110006.
Gupta (L. C.) & Co., Bara Tooti Chowk, Sadar Bazar, 110006.
Gupta (N.) & Co., 13-A, University Rd., 110007.
Gupta (N. C.) & Co., F-20/10, Krishnagar, 110031.
Gupta (N. G.) & Co., 8/86, Gadodia Market, 110006.
Gupta (P. S.) & Co., VI/1646, Lalkuan, 110006.
Gupta (R. G.) & Co., 12, Roshanara Rd., Subzi Mandi, 110007.
Gupta (R. S.) & Co., Shri Mahalaxmi Market, Chandni Chowk, 110006.
Gupta (S. C.) & Co., 56, Daryaganj, 110006.
Gupta (S. P.) & Co., Opp. Church, Chandni Chowk, 110006.
Gupta (S. S.) & Co., H-2/14, Krishna Nagar, 110051.
Gupta (V. K.) & Co., 6, Brar House, Bara Tooti, 110006.
Gupta Dhami & Co., E 69, Vasant Marg, Vasant Vihar, 110022.
Gupta Raj & Co., 29/1556, Naiwala, Karol Bagh, 110005.
Gureja (V. S.) & Co., II A-30, Lajpat Nagar, 110024.
Gutgutia (A. K.) & Co., F-29, South Ext. Part I, 110049.
Gutgutia (K. N.) & Co., R-686, New Rajendra Nagar, 110060.
Haribhakti (V. B.) & Co., Atma Ram House, 'C' Block, Connaught Place, 110001.
Harjit & Co., F-13/6, Krishna Nagar, 110051.
Hingorani (M.) & Co., 49, Chandni Chowk, 110006.
Hitkari & Hitkari, 3/13-B, A. Ali Rd., 110001.
Issar (V. K.) & Co., L-17, Kirti Nagar, 110015.
Iyer (V. S.) & Co., House No. 7A-12, W.E.A., Karol Bagh, 110005.
Jagdish Chand & Co., 96, Model Basti, 110005.
Jagdish Dutt & Co., 3116, Sir S. Ahmed Rd., Daryaganj, 110001.
Jagdish Gupta & Co., 3545/3, Mohalla Jatwara, Daryaganj, 110006.
Jagdish Kumar Gupta & Co., 127, Thompson Rd., 110001.
Jagdish Prasad & Co., 259, Chandni Chowk, 110006.
Jagdish Sapra & Co., Room No. B, Virmani Cold Storage, E-2, Jhandewalan Ext., 110055.
Jag Mohan Kapoor & Co., M-15, Kirti Nagar, 110015.
Jain & Associates, 2, Barar House, Bara Tooti, Sadar Bazar, 110006.
Jain & Jain Associates, 643, Katra Hardayal, 110006.
Jain (A. K.) & Co., 14 A-95, W.E.A., Karol Bagh, 110005.
Jain (A. P.) & Co., N-4, Kirti Nagar, 110005.
Jain (B. C.) & Co., 64, Regal Bldgs., 110001.
Jain (D. C.) & Associates, A-14/3, A. Ali Rd., Jamna Bhuwan, 110001.
Jain (J. K.) & Co., 4/14 A, A. Ali Rd., 110002.
Jain (K. C.) & Co., 102-D, Kamla Nagar, 110007.
Jain (N. C.) & Co., 1789, Dariba Kalan, 110006.
Jain (S. P.) & Co., 47, Bungalow Rd., Kamla Nagar, 110007.
Jain (S. V.) & Co., 115, Shiv Devi Bhawan, Virnagar, G. Trunk Rd., 110007.
Jain (T. C.) & Co., 5526, Nai Sarak, 110006.
Jain (V. K.) & Co., 4539, Pahari Dhiraj, 110006.
Jain (Y. K.) & Co., 1956, Katra Kushal Rai, Kinari Bazar, 110006.
Jain Khandelwal & Co., 4/14A, A. Ali Rd., 110001.
Jain Malik & Co., 6 B, Regal Bldgs., 110001.
Jain Mathur & Associates, 643, Katra Hardayal, Chandni Chowk, 110006.
Jain Sharma & Co., 25/4, Block A, Connaught Place, 110001.
Jaintly and Luthra, 2 E/6, New Link Rd., 110055.
Jaintly (P. L.) & Co., 2 E/6, Jhandewalan, 110055.
Jaintly (R. V.) & Co., 948, Punjabi Mohalla, Subzi Mandi, 110007.
Jasuja (K. B.) & Co., 64, Regal Bldgs., Connaught Circus, 110001.
Jauhari (M. C.) & Co., 1684, Arya Samaj Rd., Karol Bagh, 110005.
Jhalani (R. S.) & Co., 3598, Sita Ram Bazar, 110006.
Jhingan (O. P.) & Co., 59, Mahabat Khan Rd., 110001.
Jindal (N. K.) & Co., B-44, C. C. Colony, G. Trunk Rd., Opp. R. P. Bagh, 110007.
Jindal Mehta & Co., B. Ram Rd., 40, Darya Ganj, 110006.
Joginder (P.) Jain & Co., 17F, Qutab Rd., Teliwara, 110006.
Johar Garg Chhabra, 1899, Chandni Chowk, 110006.
John Cummings & Co., C-53, South Ext. I, 110049.
Jotwani (M.) & Co., Block 7, House 4, East Patel Nagar, 110008.
Kabi (M. S.) & Co., D-159, Defence Colony, 110003.
Kabra (R. K.) & Co., 1409, Maliwara, 110006.
Kakar (B. K.) & Co., 17/2, Tilak Nagar, 110018.
Kakar (S. C.) & Co., 4/11, W.E.A., 110005.
Kakar (T. S.) & Co., 8/3548, Rehgarpura, Karol Bagh, 110005.
Kalra (M. K.) & Co., 702, Double Storey, New Rajinder Nagar, 110005.
Kabra (T. D.) & Co., 58-F, Connaught Place, 110001.
Kalyaniwalla & Mistry, 1104, Akash Deep, Connaught Lane, Connaught Circus, 110001.
Kamal & Co., 1/1372, Kashmere Gate, 110006.
Kandhari (S. K.) & Co., M-133, Connaught Circus, 110001.
Kansal & Co., 1687, Arya Samaj Rd., 110005.
Kansal (R. C.) & Co., 1789, Dariba Kalan, 110006.
Kansal Grover & Co., G-26, N. D. South Ext. I, Ring Rd., 110003.
Kanwalia & Co., 12, Lady Hardinge Rd., 110001.
Kapasi (P. B.) & Co., Y-7, Green Park, 110016.
Kapoor (A. S.) & Co., A-146, Defence Colony, 110003.
Kapoor Ahuja & Co., 4A, Kamla Nagar, 110007.
Kapoor Associates, 3/45, Rajender Nagar, 110005.
Kapoor (B. R.) & Associates, G-60, Kirti Nagar, 110015.
Kapoor (B. R.) & Co., D-159, Defence Colony, 110003.
Kapoor (D. P.) & Co., 'N' Block, Opp. Scindia House, Connaught Circus, 110005.
Kapoor (J. C.) & Co., 877, S. P. Mukherjee Marg, 110006.
Kapoor (J. M.) & Co., Hotel Rex Bldg., 4/5, Faiz Bazar, Daryaganj, 110006.
Kapoor (K. K.) & Co., 1-E/18, Jhandewalan Ext., New Link Rd., 110055.
Kapoor (O. P.) & Co., 276, Kucha Sanjogi Ram, Naya Bans, 110006.
Kapoor (R. C.) & Co., 1-E/18, Jhandewalan Ext., 110055.
Kapoor (S. C.) & Co., 2967, Kucha Neelkanth, Daryaganj, 110006.

Kapoor (S. P.) & Co., Jindal House, 1/9B, A. Ali Rd., 110001.
Kapur Bhushan & Co., 2A/13, Geeta Colony, 110031.
Kapur Jauhari & Co., 4265/3, Daryaganj, 110006.
Kapur Singh & Co., 4265/3, Daryaganj, 110006.
Kapur & Hooja, 2821, Kashmere Gate, 110006.
Kapur (A. N.) & Co., 118-M, Connaught Circus, 110001.
Kapur (D. K.) & Co., A-598, Sector III, R. K. Puram, 110022.
Kapur (K. B.) & Co., C 1/25, Model Town, 110009.
Kapur (N. D.) & Co., Flat 2-A, Shankar Market, Connaught Circus, 110001.
Kapur (S. P.) & Co., F 58, Connaught Place, 110001.
Kapur (S. R.) & Co., F-58, Connaught Place, 110001.
Katari Narang & Co., 6/14, West Patel Nagar, 110008.
Kaul (V. K.) & Co., J-5/118, Rajouri Gardens, 110027.
Kesarwani (J. P.) & Co., No. 543, Sector IV, R. K. Puram, 110022.
Khandelwal (B. L.) & Co., Naya Bazar, 110006.
Khandelwal (R. S.) & Co., Vaidwara, Maliwara, 110006.
Khanna & Annadanam, 706-707, Akash Deep, 26-A, Barakhamba Rd., 110001.
Khanna & Co., 26, Kishan Neket, Delhi Gate, 110006.
Khanna & Khanna, 2nd Floor, 761/42A, Clock Tower, Chandni Chowk, 110006.
Khanna & Khosla, 2/3, Jhandewalan Extn., Link Rd., 110055.
Khanna (B. L.) & Co., 2165, Karol Bagh, 110005.
Khanna (D. L.) & Co., 4756, Laxmi Bazar, Fatehpuri, 110006.
Khanna (H. L.) & Co., 8/3, A. Ali Rd., 110001.
Khanna (K. C.) & Co., 665, Gobind Mansion, Connaught Circus, 110001.
Khanna (K. K.) & Co., M-133, Connaught Circus, 110001.
Khanna (M. K.) & Co., H No XII/61, Near Post Office, Subzi Mandi, 110007.
Khanna (N. K.) & Co., O/50, Malka Ganj, Subzi Mandi, 110007.
Khanna (N. S.) & Co., 11433, G. Trunk Rd., Sakti Nagar, 110007.
Khanna (P. N.) & Co., 14/15 F, Connaught Circus, 110001.
Khanna (R.) Annadhanam, B-7/III, A. Ali Rd., 110001.
Khanna (R. K.) Co., B-7/3, A. Ali Rd., 110001.
Khanna (S. C.) & Co., Flat No. 1007, Akash Deep Bldg., 26, Barakhamba Rd., Connaught Circus, 110001.
Khanna Sikand & Sen Gupta, 761/42 A, Clock Tower, Chandni Chowk, 110006.
Kharabanda (A.) & Co., G-3/51, Model Town, 110009.
Kherbanda (K. K.) & Co., Q No. 310, G. Trunk Rd., Shahdra, 110032.
Khetrapal (M. R.) & Co., Scindia House, 110001.
Khindaria (S. L.) & Co., S-215, Panch Shila Park, 110017.
Khosla (D. P.) & Co., Atma Ram House, C-37, Connaught Place, 110001.
Khosla (R.) & Co., 1-E/17, Jhandewalan Link Rd., 110001.
Khosla (V. K.) & Co., U.S.O. House, 1715, Arya Samaj Rd., 110005.
Khurana (S. R.) & Co., B-6, A. Ali Rd., 110001.
Khurana Varshney & Co., B-6, A. Ali Rd., 110001.
Kinra (R. K.) & Co., 7/113, Daryaganj, 110006.
Kishan (B.) & Co., B-7/40, Safdarjung Enclave, 110016.
Kishan C. Jain & Co., 3177, K. K. Jamadar St., Pahari Dhiraj, 110006.
Kishore (B. N.) & Co., 4/9, A. Ali Rd., 110001.
Kishore (K.) & Co., 7/27A, Roop Nagar, 110007.
Kishore (R. R.) & Co., 17, Kucha Chaudhary, Chandni Chowk, 110006.
Kishore & Kishore, 3/13 B, A. Ali Rd., 110001.
Kishore Kumar & Co., B-60, West Patel Nagar, 110008.
Kochhar (J. R.) & Co., J/80, Kirti Nagar, 110015.
Kohli (B. S.) & Co., 8, Bhambri Mansion, Ramjas Rd., Karol Bagh, 110005.
Kohli (G. S.) & Co., Virmani Bldg., E-2, Jhandewalan Ext., 110055.
Kohli (L. K.) & Co., 840, Joshi Rd., Karol Bagh, 110005.
Kohli (P. S.) & Co., 5/70, W.E.A. Ajmal Khan Rd., Karol Bagh, 110005.
Kohli (U. S.) & Co., 12/3, A. Ali Rd., 110001.
Kothari (D. M.) & Co., 432, Mathura Rd., 110014.
Kothari (S. S.) & Co., Flat No. 1, Left Block, Jain Bhawan Annex, 12, Bhagat Singh Marg, 110001.
Kriplani (L. D.) & Co., 4564/A, Saraswati Niketan, 16, Daryaganj, 110006.
Krishan K. Gupta & Co., 606, Pati Ram St., 110006.
Krishan K. Sehgal & Co., 2/27, Roop Nagar, 110007.
Krishna (S.) & Co., 65/68, New Rohtak Rd., 110005.
Krishna Kant M. Pandya & Co., E-157, Greater Kailash, 110001.
Kuldeep & Co., F-1/16, Ansari Rd., 110006.
Kuldip Singh & Co., Jeewan Mansion, 8/4, D. B. Gupta Rd., Paharganj, 110055.
Kulvir Chandok & Co., F-68, Bhagat Singh Market, 110001.
Kumar (A.) & Co., 4494, Gate Raja Patni Mal, Pahari Dhiraj, 110006.
Kumar (D.) Co., 2650, Gali Badliyan, Chooriwalan, 110006.
Kumar (J.) & Co., 8/102, Ramesh Nagar, 110015.
Kumar (J. L.) & Co., 64, Regal Bldgs., 110001.
Kumar (N.) & Co., 5180, Sadar Bazar, 110006.
Kumar (P.) & Co., 60/13, New Rohtak Rd., Karol Bagh, 110005.
Kumar (S.) & Associates, 20, Ansari Rd., 110006.
Kumar (S. C.) & Co., D-264, Defence Colony, 110003.
Kumar (V. K.) & Co., A-141, Moti Bagh I, G. Type Quarter, 110023.
Kumar & Kumar, 5/4996, Sant Nagar, Karol Bagh, 110005.
Kumar & Rajan, E-74, N. D. South Ext. Part I, 110049.
Kumar Grover & Co., 64, Regal Bldgs., 110001.
Kumar Mahajan & Co., 1-E/2, Jhandewalan Ext., 110055.
Kumar Mittal & Co., C-57, South Ext. Part I, 110049.
Lal (B. B.) & Co., R-10, Hauz Khas, 110016.
Lal (K. B.) & Co., 7/36, W.E.A., Karol Bagh, 110005.
Lal (R. K.) & Co., B/84, Defence Colony, 110003.
Lal (S. M.) & Co., N-29, South Ext. Part I, 110003.
Lalit Jain & Co., 7/35, Daryaganj, 110006.
Lall & Co., Chandni Chowk (Opp. Central Bank), 110006.
Lall Thusoo & Co., 15, Kamla Market, 110001.
Lamba (S. L.) & Co., Shantiniketan, 4/9, A. Ali Rd., 110001.
Laroiya (V. P.) & Co., B-11/80, Janakpuri, Pankha Rd., 110018.
Lodha & Co., 12, Hardinge Rd., 110001.
Lovelock & Lewes, Hamilton House, A Block, Connaught Place, 110001.

Lunawar & Co., 1042, Gali Hiranand Maliwara, 110006.
Luthra & Associates, C-22, Anand Niketan, (Near Moti Bagh-2), 110023.
Luthra (K. D.) & Co., 3/4A, A. Ali Rd., 110001.
Madan (B. K.) & Co., Madan Bhavan, E 34, Rajouri Gardens, 110027.
Madan (H. S.) & Co., 4662/21, Ansari Rd., Daryaganj, 110006.
Madan (K. B.) & Co., Sachdeva Mansion, 4/5 B, A. Ali Rd., 110001.
Madan (M. K.) & Co., 113, Joshi Rd., Karol Bagh, 110005.
Madan (R. L.) & Co., 8/4, W.E.A., Karol Bagh, 110005.
Madhok (S. S.) & Co., C-76, South Ext. Part II, Ring Rd., 110049.
Mahajan (R. S.) & Associates, B/118, Moti Khan, 110001.
Mahendra, Mehra & Mehra, 1366, Kashmere Gate, 110006.
Maheshwari (B. R.) & Co., Mahabir Bazar, Cloth Market, 110006.
Maheshwari Bhomia & Co., 1701, Jaikishan St., Bhagirath Palace, Chandni Chowk, 110006.
Maingi (B. M.) & Co., 454, Double Storey, New Rajindra Nagar, 110060.
Maini (C. P.) & Co., 25/2, West Patel Nagar, 110008.
Makhija (O. P.) & Co., H 44, Kalkaji.
Makkar (S. K.) & Co., S-239, Greater Kailash, 110014.
Malhotra (B. K.) & Co., 3/8, East Patel Nagar, 110008.
Malhotra (J. L.) & Co., 2-A, Khan Market, 110011.
Malhotra (K. C.) & Co., 1517, Kashmere Gate, 110006.
Malhotra (S. C.) & Co., F-38, Connaught Circus, 110001.
Malik (D. K.) & Co., 6-B, Regal Bldgs., Connaught Place, 110001.
Malik (J. G.) & Co., 229, Dr. Joshi Rd., 110005.
Malik (T. C.) & Co., 62/2, Queensway, 110001.
Manian & Co., 4, Scindia House, 110001.
Manjit Singh & Co., A-1/21, Safdarjung Enclave, 110016.
Manmohan Aggarwal & Co., 132-M, Connaught Circus, 110001.
Manmohan Singh & Co., 127, Thompson Rd., 110003.
Marathe (G.) & Co., C/o A. P. Marathe, Birla Mills, 110007.
Marwah (R. N.) & Co., 4/80, Janpath, 110001.
Marwaha (B. K.) & Co., J-22, Kirtinagar, 110015.
Marwaha (S. P.) & Co., 58-F, Connaught Place (Middle Circle), 110001.
Mathur (G. C.) & Co., 10, Mangal Bldg., Chandni Chowk, 110006.
Mathur (G. K.) & Co., 2860, Chailpuri, Kinari Bazar, 110006.
Mathur (G. S.) & Co., C-93, Himalaya House, 23, Curzon Rd., 110001.
Mathur (J. C.) & Co., Kundan Mansion, Chandni Chowk, 110006.
Mathur (M. C.) & Co., 4113, Roshanpura, Nai Sarak, 110006.
Mathur (P. D.) & Co., 1767, Jagannath Bldg., Chandni Chowk, 110006.
Mathur (R. B.) & Co., J-11/104, Rajouri Garden Ext. 110027.
Mathur (R. D.) & Co., 138/C, Dilshad Garden, Shahdra, 110032.
Mathur (S. M.) & Co., 831, Sector XII, R. K. Puram, 110022.
Mathur (S. N.) & Co., 1893/1-F, Chandni Chowk, 110006.
Mathur (V. N.) & Co., 1893/1-F, Chandni Chowk, 110006.
Mathura (B. B.) & Co., 3/13 B, A. Ali Rd., 110001.
Megh Anand & Co., 30-31, Regal Bldg., Parliament St., 110001.
Mehndroo (H.) & Co., 4-24A, A. Ali Rd., 110001.
Mehra (B. G.) & Co., 7/61, South Patel Nagar, 110008.
Mehra (H. S.) & Co., 910, G. I. P. Ram St., 110006.
Mehra (K. K.) & Co., 1610, Pataudi House, Daryaganj, 110006.
Mehra (P. R.) & Co., 56, Daryaganj, 110006.
Mehra (R. N.) & Co., 615, Katra Neel, 110006.
Mehra (R. P.) & Co., 2741, Gali Nani Khan, Faiz Bazar, Daryaganj, 110006.
Mehra (Goel) & Co., 1368, Kashmere Gate, Delhi, 110006.
Mehra Khanna & Co., M. J. Bldg., Chandni Chowk, 110006.
Mehrotra & Mehrotra, 8/4, D. B. Gupta Rd., Paharganj, 110001.
Mehrotra (S. C.) & Co., R-52, Greater Kailash I, 110048.
Mehrotra Seth & Co., Jeewan Mansion, 8/4, D. B. Gupta Rd., Paharganj, 110055.
Mehta (K. S.) & Co., Jain Bhuwan, Left Block, 12, Bhagat Singh Marg, 110001.
Mehta (M. L.) & Co., F-74, Green Park, 110016.
Mehta (P. N.) & Co., Thapar House, Janpath, 110001.
Mehta (S. K.) & Co., EG-105, Inder Puri, 110012.
Mehta (V. K.) & Co., Kanson House, 1/24, A. Ali Rd., 110001.
Mehta Verma & Co., Jeewan Mansion, 8/4, D. B. Gupta Rd., Paharganj, 110055.
Mehta Vij & Co., D-3/12, Vasant Vihar, 110057.
Mehtabsons (A. F.) & Co., Aljamit Bldg., Qasim Jan St., Ballimaran, 110006.
Mital (K. K.) & Co., 4/10, Roop Nagar, 110007.
Mittal (B. L.) & Co., B-8, Navin Shahdra, 110032.
Mittal (C. M.) & Co., F-9/9, Model Town, 110009.
Mittal (G. K.) & Co., 4215, Jogiwara, Nai Sarak, 110006.
Mittal (K. C.) & Co., 1858, Wazir Singh St., Chuna Mandi, Paharganj, 110055.
Mittal (K. S.) & Co., 3998, Naya Bazar, 110006.
Mittal (P. D.) & Co., 128, Punjab Exchange, Katra Baryan, Fatehpuri, 110006.
Mittal (S. K.) & Co., Dilbar Bldg., D. B. Gupta Rd., Paharganj, 110055.
Mittal (S. R.) & Co., Kundan Mansion, Chandni Chowk, 110006.
Mittal (V. K.) & Co., 1/10, Shalimar Park, Bhola Nath Nagar, Shahdra, 110032.
Mittal Chaudhry & Co., Balraj Puri House, 1E/18, Jhandewalan Ext., 110001.
Mitter (H.) & Co., 408, Akash Deep Bldg., 26A, Barakhamba Rd., 110001.
Mohan & Sawhney, 121, New Lajpatrai Market, 110006.
Mohan (P. N.) & Co., C-24, Greater Kailash, 110048.
Mohan (S.) & Co., 47-G, Connaught Circus, 110001.
Mohan (S. R.) & Co., 4654/55, Mahabir Bazar, Queens Rd., 110006.
Mohindra & Co., 3799, Shah Ganj, Ajmere Gate, 110006.
Mohindra & Marwaha Co., 58-F, Connaught Place, 110001.
Mohindra (K. K.) & Co., 58-F, Connaught Place, 110001.
Monga (P. N.) & Co., II-J/40, Lajpat Nagar, 110024.
More Dutta & Co., 10-B, N. Subash Marg, Daryaganj, 110006.
Mozo (B. L.) & Co., 28, Ring Rd., Lajpat Nagar, 110024.
Munjal & Co., M-102, Greater Kailash I, 110008.

Nagar (N. L.) & Co., 47/17, Rajendra Nagar, 110060.
Nagpal & Co., 7310, Aram Nagar, 110055.
Nagpal (A. N.) & Co., 1 E/4, Jhandewalan Ext., 110001.
Nagpal Garg & Co., 7810, Aram Nagar, 110055.
Nagrath (S. P.) & Co., 17, Faiz Bazar, Daryaganj, 110006.
Nanda (S. N.) & Co., 1 E/23, Jhandewalan Ext., 110001.
Narain & Chadha, E-2, Jhandewalan Ext., 110001.
Narain Chadha & Gupta, E-2, Jhandewalan Ext., 110001.
Narain (M.) & Co., 4/8, Railway Colony, Kishan Ganj, 110006.
Narain (R.) & Co., A/8, Lajpat Nagar IV, 110014.
Narang (D. M.) & Co., E-6, Connaught Place, 110001.
Narendra Kumar & Co., 4, Kaka Nagar, 110003.
Naresh K. Gupta & Co., Mahabir Bazar, Cloth Market, 110006.
Narindir Nath & Co., D-12, Lajpat Nagar III, 110024.
Nash Talreja & Co., C/C-24, Kalkaji Extn., 110019.
Nath (A.) & Co., IV/E/262, Amar Colony, 110024.
Nath Ahuja & Co., 21, Park Area, Karol Bagh, 110005.
Nayar (I. M.) & Co., 13/18, Shakti Nagar, 110007.
Nayyar & Mallik, 3/17A, A. Ali Rd., 110001.
Nayyar (C. L.) & Co., 1/24, A. Ali Rd., 110001.
Nirmal Jain & Co., 643, Katra Hardayal, Chandni Chowk, 110006.
Nirmal Suri & Co., 46, South Patel Nagar Market, 110008.
Niwas Aggarwal (R.) & Co., 23-11B, Jawahar Nagar, 110007.
Ohri (S. N.) & Co., 4/47, W.E.A., Karol Bagh, 110005.
Omkar Nath Seth & Co., H-2/16, Daryaganj, 110006.
Pabreja (P. S.) & Co., 9901, Parde Wali Gali, Nawab Ganj, Pul Bangash.
Padam C. Jain & Co., 21/51, Shakti Nagar, 110007.
Pahuja (J. K.) & Co., National Park, Lajpat Nagar, 110024.
Pahwa (J. S.) & Co., 64, Regal Bldgs., 110001.
Pal (M.) & Co., 21-A, Lakshmi Bldg., A. Ali Rd., 110001.
Pandey (N. P.) & Co., 7/37-A, Jangpura-B, 110014.
Pandit (G. D.) & Co., Soni Mansion, 1687, Arya Samaj Rd., 110005.
Pandit (L. R.) & Co., 9, Madras House, Daryaganj, 110006.
Parameswar (C. V.) & Co., T-24, Green Park, 110016.
Pasricha (S. P.) & Co., 3-11/43, Rajouri Garden Ext., 110027.
Paul & Co., 10, Ansari Market, Daryaganj, 110006.
Peat, Marwick, Mitchell & Co., B-102, Himalaya House, 23, Gandhi Marg, 110001.
Peri (G. K.) & Co., 11/1, East Patel Nagar, 110008.
Poddar (V. N.) & Co., 10, Ring Rd., Lajpat Nagar IV, 110024.
Prabhat K. Gupta & Co., R-775, New Rajendra Nagar, 110060.
Pradhan (H. N.) & Co., Room No. 9, E/2, Virmani Bldg., Jhandewalan Ext., 110055.
Prakash (S. K.) & Co., 1-C/43, Rohtak Rd., 110005.
Prasad (K.) & Co., B-41, South Ext. I, 110049.
Prasad (R.) & Co., 60/40, New Rohtak Rd., 110005.
Prasad Azad & Co., 7/7, D. B. Gupta Rd., 110001.
Prasad Azad & Bhushan, 7/7, D. B. Gupta Rd., 110001.
Prasad Rai & Co., 2/7, Ansari Rd., Daryaganj, 110006.
Prashad (S.) & Co., Brar House, Bara Tooti, Sadar Bazar, 110006.
Pratap (V.) Khanijo & Co., 1501, Pataudi House, Daryaganj, 110006.
Prem (K.) Seth & Co., M-133, Connaught Circus, 110001.
Prem Khandelwal & Co., 3598, Sitaram Bazar, 110006.
Prem Nath & Co., 36/53, Ramjas Rd., W.E.A., 110005.
Price Waterhouse & Co., B-102, Himalaya House, 23, Kasturba Gandhi Marg, 110001.
Price Water House, Peat & Co., B-102, Himalaya House, K. Gandhi Marg, 110001.
Puri (M. L.) & Co., 27/5, East Patel Nagar, 110008.
Puri (R. M.) & Co., 16-W/10, Patel Nagar (West), 110008.
Puri (S. C.) & Co., 2772, Kashmere Gate, 110006.
Puri (S. P.) & Co., Shashi Bldg., 18/4, A. Ali Rd., 110001.
Puri (Y. P.) & Co., 7-5213, Ghodbunder Rd., 110006.
Purohit (V. N.) & Co., R-709, New Rajinder Nagar, 110005.
Pushkarna (S. M.) & Co., 36-H, P. & T. Qtrs., Civil Lines, 110006.
Pushkarna (S. S.) & Co., 7/59-60, Gokhale Market, 110006.
Radha Krishna Gupta & Co., F-18/21, Krishna Nagar, 110051.
Radhey Mohan & Associates, 1479, Lawyer's Chamber, Behind Ritz Cinema, Kashmere Gate, 110016.
Raghu Nath Rai & Co., 3, Hanuman Rd., 110001.
Raheja (K. S.) & Co., Jeewan Mansion, 8/4, D. B. Gupta Rd., Paharganj, 110055.
Rai & Associates, P-60, South Ext., Part II, 110066.
Rai & Co., 1004, Mali Wara, 110006.
Rai & Mehrotra, P-60, South Ext. II, 110049.
Rai (G.) & Co., P-60, South Ext. II, 110049.
Rai Krishna & Co., B-26, Kailash Colony, 110048.
Rai Mathur & Associates, P-60, South Ext. Part II, 110049.
Raj & Co., 5/70, W.E.A., Ajmal Khan Rd., Karol Bagh, 110005.
Raj Gupta & Co., 26-B, Kailash Colony, 110048.
Raj K. Kapoor & Co., 3005, Lane No. 15, Ranjeet Nagar, 110008.
Raj K. Tandon & Co., Tandon House, 23, Daryaganj, 110006.
Rajen & Bhim, 2644, Naya Bazar, 110006.
Rajendra & Associates, 1/49, Nirankari Colony, 110009.
Rajindra & Co., 9-N, Munshilal Bldg., Connaught Circus, 110001.
Rajendra Arora & Co., E-74, South Ext. I, 110049.
Rajendra Khanna & Associates, 1007, Akash Deep Bldg., Connaught Circus, 110001.
Rajendra K. Garg & Co., 2366/1, Chhatta Shahji, Bar Shah Bulla, Chawri Bazar, 110006.
Rajesh K. Gupta & Co., 27, Kucha Chawdhury, Opp. State Bank of India, Chandni Chowk, 110006.
Rajiv Vij & Co., D-3/12, Vasant Vihar, 110022.
Rallan (B. M.) & Co., 1/24, Kanson House, A. Ali Rd., 110001.
Ram (D.) & Co., 4606, Deputy Gunj, Sadar Bazar, 110006.
Ram Murthy (B. M.) & Co., W-36, Greater Kailash, 110048.
Ramanand (P. D.) & Co., 7/7, D. B. Gupta Rd., Paharganj, 110055.
Ramanand Aiyar (S.) & Co., Tropical Bldgs., H. Block, Connaught Circus, 110001.
Ramesh C. Bansal & Associates, 82, Daryaganj, Dayanand Rd., 110006.
Ramesh C. Bansal & Co., 82, Daryaganj, Dayanand Rd., 110006.

Ramesh C. Kapoor & Co., 4265/3, Daryaganj, 110006.

Ramesh Gupta & Co., 12, Roshanara Rd., Subzimandi, 110006.

Ramesh Sardana & Co., F-9, Vijay Nagar, 110009.

Ramesh Sahni & Co., E-39, Connaught Place, 110001.

Ram Gopal (M. V.) & Co., 11-A/17, W.E.A., Karol Bagh, 110005.

Ramkrishna & Co., B-26, Kailash Colony, 110048.

Ranjal K. Mitra & Co., 70/4A, Motia Bagh Rly. Colony, Subzi Mandi, 110007.

Ranjan Rehani & Co., Bansi House, Y-24, A. Ali Rd., 110001.

Rastogi (G. P.) & Co., 62-A, Kamla Nagar, 110007.

Rastogi (P. N.) & Co., 2435, Tilak St., Chuna Mandi Paharganj, 110001.

Ravi K. Pandit & Co., 23/4, G. Trunk Rd., Shakti Nagar, 110007.

Ravi Mehta & Co., 13-B, Rajinder Park, Shankar Rd., 110005.

Ravinder (R.) & Co., 2704/16, Ajmal Khan Rd., Karol Bagh, 110005.

Rawla & Co., 2655, Bank St., 110005.

Ray & Ray, Ahimsa Mandir, 1, Ansari Rd., Daryaganj, 110006.

Rekhi & Co., 4, Kashmere Gate, 110006.

Relan (R. C.) & Co., 174, Kamla Market, 110001.

Rellan (S. K.) & Co., Apsara Hotel Bldg., 1700, Arya Samaj Rd., 110005.

Rethinam (V.) & Co., 8, Lady Hardinge Rd., 110001.

Rishi & Co., 15/292, Lodi Rd., 110001.

Rohatgi (G. L.) & Co., 3560, Chawri Bazar, 110006.

Roy Malhotra & Co., 2772, Kashmere Gate, 110006.

Rustogi & Co., 9, Gopi Nath Market, Khari Baoli, 110006.

Sabharwal (I. K.) & Co., 2776, Hamilton Rd., 110006.

Sabharwal (N. C.) & Co., 2606, St. No. 9, Chuna Mandi, Paharganj, 110055.

Sachdev (D. S.) & Co., Cottage No. 24, West Patel Nagar, 110008.

Sachdev (K. B.) & Co., 1-E/2, Jhandewalan Ext., 110055.

Sachdev (S. N.) & Co., 4, Kashmere Gate, 110006.

Sahai (V.) & Co., 36/G, Connaught Circus, 110001.

Sahgal & Sahgal, 1, Lajpatrai Rd., Jangpura, 110014.

Sahgal (M. L.) & Co., 2E/6, New Link Rd., 110055.

Sahgal Anand & Co., 1006, Akash Deep Bldg., 26A, Barakhamba Rd., 110001.

Sahni Mehra & Co., E-39, Connaught Place, 110001.

Sahni Puri & Co., Flat A-81, Himalaya House, 23, Kasturba Gandhi Marg, 110001.

Salarpuria Jajodia & Co., 16A, A. Ali Rd., 110001.

Saluja & Associates, Jolly Bldg., 69, D. B. Gupta Rd., 110055.

Saluja (H. R.) & Co., A-50, Amar Colony, Lajpatnagar IV, 110014.

Sampath Ayyangar (V.) & Co., A-256, Defence Colony, 110003.

Sampath (K.) & Co., 4430, Vishnu Bazar, 110006.

Sankar Aiyar (V.) & Co., 8, Lady Hardinge Rd., 110001.

Sansi (M.) & Co., 3271, D. B. Gupta Rd., Paharganj, 110055.

Sapra (K. C.) & Co., F-86, Outram Lines, Kingsway, 110009.

Sapra (S. K.) & Co., Jindal Trust Bldg., 1/8B, A. Ali Rd., 110001.

Sapra Thapar & Co., 3-A/3, A. Ali Rd., 110001.

Saraf (R. N.) & Co., 407, Kucha Brij Nath, Chandni Chowk, 110006.

Saraf Gupta & Co., 29/1556, Sri Kishan Das Rd., Karol Bagh, 110005.

Sardana (D. V.) & Co., 49/42, Panjabi Bagh, 110026.

Sardar (D. N.) & Co., N-79, Panchshila Park, 110017.

Sarup (B.) & Co., 330, Katra Hussain Bux, Khari Baoli, 110006.

Sarup Mahindra & Co., 330, Katra Hussain Bux, Khari Baoli, 110006.

Sastry (K.) Anandam & Co., Flat No. 16, Dakshineshwar Flats, 10, Hailley Rd., 110001.

Satia (R. K.) & Co., C/o Raj Hotel, Subzi Mandi, 110006.

Satish (K.) Gupta & Co., 3267, Gali Rajawali, Pipal Mahadeo, Hauz Qazi, 110006.

Satya Gupta & Co., 1479, Lawyers Chambers, Kashmere Gate, 110006.

Satya Sai & Co., C-2/35, S.D.A., Hauz Qazi, 110006.

Sawhney Ahuja & Narang, S-355, Panchshila Park, 110017.

Sawhney (R. K.) & Co., H, 223, Hudson Lines, Kingsway, 110009.

Saxena & Co., 3/8, Maharani Bhawan Annexe, Roopnagar, 110007.

Saxena (R. K.) & Co., 3-102, West Patel Nagar, 110008.

Saxena (R. P.) & Co., 2815, Peepal Mahadeo, Hauz Qazi, 110006.

Sehgal (R.) & Co., 50-C, Nizamuddin East, 110013.

Sen (K. B.) & Co., H Block, Tropical Bldgs., Connaught Circus, 110001.

Sen Gupta (D. K.) & Co., 2741, Gali Nani Khan, Faiz Bazar, Daryaganj, 110006.

Sen Gupta (J. L.) & Co., 1072, Kashmere Gate, 110006.

Sen Gupta, Sharma, Khanna & Co., 761/42A, Clock Tower, Chandni Chowk, 110006.

Sen Jain (C.) & Co., 27-A, Model Basti, 110001.

Seth (S. K.) & Co., M-132, Connaught Circus, 110001.

Seth Taneja & Co., D-94, Himalaya House, K. Gandhi Rd., 110001.

Sethi & Co., 21, Daryaganj, 110006.

Sethia (S. K.) & Co., C/o 42, New Lajpat Rai Market, 110006.

Setia & Co., III-F/5, Lajpat Nagar, 110024.

Shah (O. P.) & Co., B-6, A. Ali Rd., 110001.

Shanker Associates, 7/7, D. B. Gupta Rd., 110055.

Sharma & Co., S-54, Greater Kailash, 110048.

Sharma (D.) & Co., 14, Gokhale Market, 110006.

Sharma (G. L.) & Co., 37/18, Rajinder Nagar, 110005.

Sharma (J. K.) & Co., HA/40, Lajpat Nagar, Link Rd., 110014.

Sharma (J. N.) & Co., HA/40, Lajpat Nagar, Link Rd., 110014.

Sharma (M. L.) & Co., 1397, Nagin Bldg., Chandni Chowk, 110006.

Sharma (R.) & Co., B-4/13, Krishan Nagar, 110051.

Sharma (S. D.) & Co., 4, Kashmere Gate, 110006.

Sharma (Y. P.) & Co., C-I/184, Lajpat Nagar, 110024.

Sharma & Khemka, 118-D, Kamla Nagar, 110007.

Sharmas, 118-D, Kamla Nagar, 110007.

Sharp & Tannan, 3/1, A. Ali Rd., 110001.

Shiam Satya & Co., 25, Bangalow Rd., Kamla Nagar, 110007.

Shivdasani (N. K.) & Co., 3/14, East Patel Nagar, 110008.

Shroff (B. K.) & Co., 3/7 B. A. Ali Rd., 110001.

Shyam Jain & Co., 5180, Sadar Bazar, 110006.
Shyam K. Gupta & Co., Kundan Mansion, Near Bhagirath Palace, Chandni Chowk, 110006.
Shyam (R.) Gupta & Co., 20/72, Shakti Nagar, 110007.
Shyam Sunder & Co., B-1/60, Janakpuri, 110018.
Singh (B. J.) & Co., L-4, Connaught Circus, 110001.
Singh (D.) & Co., Balrajpuri Bldg., 1-E/18, Jhandewalan Extn., 110001.
Singh (K.) & Co., C-68, Defence Colony, 110003.
Singh (K. R.) & Co., 10-B, N. Subash Marg, 110006.
Singh (M. M.) & Co., 101, Chhatta Bhawanishankar, Fatehpuri, 110006.
Singh (W.) & Co., Bharat Ram Rd., 40, Daryaganj, 110006.
Singh & Kumars, Dilbar Bldg., D. B. Gupta Rd., Paharganj, 110055.
Singhal (R. K.) & Co., D-1/82, Chanakya Puri, Vinay Marg, 110011.
Singhi & Co., New Asiatic Bldg., H. Block, Connaught Circus, 110001.
Sodhbans & Co., Dilbar Bldgs., D. B. Gupta Rd., Paharganj, 110001.
Soli (Y.) & Co., E/4, Jhandewalan Extn., Link Rd., 110055.
Somani (K. G.) & Co., E 1/4, Model Town, 110009.
Sondhi & Co., Flat No. 27, Shanker Market, Connaught Circus, 110001.
Soni (K. K.) & Co., 15/1, Asaf Ali Rd., 110001.
Soni (V. N.) & Co., 2-B, Railway Colony, Tilak Bridge, South Extn. II, 110049.
Soni Chatrath & Co., 15/1, Asaf Ali Rd., 110001.
Sood & Co., B-82, Defence Colony, 110003.
Sood & Khanna, B-82, Defence Colony, 110003.
Sood (K. K.) & Co., 1-E/4, Jhandewalan Extn., 110055.
Sood (R. K.) & Co., 59/5, W.E.A., New Rohtak Rd., 110005.
Sood, Soni & Khanna, B-82, Defence Colony, 110003.
Sree Raj & Co., 4/5, W.E.A., Karol Bagh, 110005.
Srinivasan (K.) & Co., Lalit Mahal, C-2/13, Safdarjung Devpt. Area, 110016.
Srivastava (H. C.) & Co., 1733/1, Dariba Kalan, 110006.
Subhash C. Jain & Co., 1034, Maliwara, Gali Hira Nand, 110006.
Subhash Ramesh & Co., 1578/5, Anil Market, Nai Sarak, 110006.
Subramanian (R.) & Co., 103/104, Akashdeep, 26-A, Barakhamba Rd., 110001.
Sud (A. C.) & Co., 113, Daryaganj, 110006.
Sudan Gupta Associates, S. Mohan Singh Bldg., Connaught Lane, 110001.
Sudhir K. Ahuja & Co., D-35, East Kailash, 110024.
Sumer Bansal & Co., 36, N. Subash Marg, 110006.
Surender & Co., F-24, Ghaffar Market, Karol Bagh, 110005.
Surender Dhawan & Co., II-K/80, Lajpatnagar, 110024.
Surender K. Aggarwal & Co., 48, Janpath, 110001.
Surender K. Gupta & Co., F-2639, Netaji Nagar, 110024.
Suresh C. Mathur & Co., 64, Regal Bldg., Connaught Place, 110001.
Suresh K. Gupta & Co., 310, Dariba Kalan, 110006.
Suresh Mehra & Co., 23, Curzon Rd. Annexe, 110001.
Suri & Singh, L-4, Connaught Circus, 110001.
Suri (R. N.) & Co., 53/36, Ramjas Rd., W.E.A., 110005.
Suri (S. P.) & Co., Scindia House, 110001.
Suri (V. K.) & Co., E-163, Kalkaji.
Suri Kumar & Co., 113, Daryaganj, 110006.
Surinder Bhalla & Co., D.D.A.'s Jhilmil Colony, Near I.T.I., Shahdra, 110032.
Sushil Khanna & Co., B-4/18, Krishan Nagar, 110031.
Sushil Kumar & Co., 4859, Harbans Singh St., 24, Daryaganj, 110006.
Swamy (N. P.) & Co., H. No. 6090, Block 2, Gali No. 1, Devnagar, 110005.
Swaraj Chandiok & Co., 41-L, Connaught Circus, 110001.
Takyar Kochar & Co., Room No. 2, Barar House, Bara Tooti, Sadar Bazar, 110006.
Talwar (D. S.) & Co., 1-E/17, Jhandewalan Extn., 110055.
Tandon (G. L.) & Co., Hari Niwas, H-3/4, Model Town, 110009.
Tandon (H.) & Co., 511, Haider Kuli, Chandni Chowk, 110006.
Tandon (J. B.) & Co., 399, Naya Bans, 110006.
Tandon Bajaj Surindra & Co., Cold Storage Bldg., Jandewalan, 110001.
Tandon Mehra Mohendra, Hari Niwas, H-3/4, Model Town, 110009.
Tandon Sapra & Co., 511, Haider Kuli, Chandni Chowk, 110006.
Taparia (S. C.) & Co., K-9, South Extn. I, 110049.
Tayal (Y. S.) & Co., C-4/37, Safdarjung Enclave, 110018.
Thakur & Co., Flat No. 3, Thakur House, 124, Janpath, 110001.
Thakur Vaidyanath Aiyar & Co., Thakur House, 124, Janpath, 110001.
Thapar (V. K.) & Co., Saraswati Bldg., 3-A/3, Asaf Ali Rd., 110001.
Thapar Saluja Associates, 3/3, Asaf Ali Rd., 110001.
Thukral (P. P.) & Co., C/o A. S. Bhatia & Co., Flat No. 1, B-6/3, Asaf Ali Rd., 110001.
Thusoo (R. L.) & Co., 15, Kamla Market, 110001.
Tuteja (T. D.) & Co., Union Bank Bldg., Ajmal Khan Rd., Karol Bagh, 110005.
Vaid Arora & Co., 36, Faiz Bazar, 110006.
Vaid (B. S.) & Co., C-539, Defence Colony, 110003.
Varadarajan & Vijay, 14 A/4, W.E.A., Karol Bagh, 110005.
Varadarajan (T. R.) & Co., 14 A/4, W.E.A., Karol Bagh, 110005.
Varma (H. R.) & Co., 2704/16, Ajmal Khan Rd., 110005.
Varma (S. C.) & Co., 2150/4, West Patel Nagar, 110008.
Varma Mehta & Co., 2150/4, West Patel Nagar, 110008.
Vee Kay & Co., 6 B, Regal Bldg., Connaught Place, 110001.
Veera Raghavan & Co., 4, Jain Mandir Rd., 110001.
Venkataraman (M. R.) & Co., 54, Janpath, 110001.
Venkatesh Aiyar & Co., 8, Lady Hardinge Rd., 110001.
Venketeswaran (P. S.) & Co., C/o A. S. Ganapathy, Shaw Wallace & Co. Ltd., Bahadur Shah Zaffar Marg, 110001.
Verma (B. S.) & Co., B-9, Ranapratap Bagh, 110007.
Verma (P. N.) & Co., E-205, New Rajinder Nagar, 110060.
Verma (S. N.) & Co., 16B/4, Asaf Ali Rd., 110001.
Verma (S. S.) & Co., 253, Kamla Market, Asaf Ali Rd., 110001.
Verma (V. K.) & Co., C-37, Connaught Place, 110001.
Verma (V. P.) & Co., 86, Daryaganj, 110006.
Vij (S. R.) & Co., XV/3271, D. B. Gupta Rd.
Vijay Narain & Co., 56/61, Ramjas Rd., Karol Bagh, 110005.

Vijender K. Jain & Co., 9992/1A, New Rohtak Rd., Sarai Rohilla, 110005.

Vinod Sahgal & Co., 1006, Akash Deep Bldg., 26A, Barakhamba Rd., 110001.

Virendra K. Jain & Co., 14/3618, Sudarshan Market, Chaneri Bazar, 110001.

Virmani, B. L. & Co., Y-16, Hauz Khas, 110016.

Vohra (S. K.) & Co., 32, Regal Bldg., Parliament St., 110001.

Vohra Bhatia & Co., 32, Regal Bldgs., Parliament St., 110001.

Wadhawan, (R. K.) & Co., B-3/2, Model Town, 110009.

Wadhwani (N. N.) & Co., 10/103, Subash Nagar, 110027.

Wahal (S. N.) & Co., E-251, Greater Kailash I, 110048.

Walia (A. K.) & Co., H-39, Kailash Colony, 110014.

Walker Chandiok & Co., 41-L, Connaught Circus, 110001.

Wejay Gauba & Co., 4952, Chandni Chowk, 110006.

Yadav (O. P.) & Co., 9988-C, Yadav Bhawan, Rohtak Rd., Sarai Rohilla, 110005.

Yogi Raj Gupta & Co., 311-H, New Rajendra Nagar, 110060.

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Bhawarlal (A) & Co., 84, Mint St., Madras 600001.

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Gopalakrishnan (P. S.) & Co., 310/311, L. Chetty St., Madras 600001.

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Hariharan (C. S.) & Co., 292, Esplanade, Madras 600001.

Harsha Anantu & Sankar, Dinroze Estate, 1/17-C, Mount Rd., Madras 600002.

Ismail & Co., 47-A, West Coopum Rd., Madras.

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Jain (K. U.) & Co., 111, N. S. C. Bose Rd., Madras 600001.

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Joseph (M.) & Co., 1, K. N. Khan Rd., Madras 600006.

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Kannan & Co., Bank of India Bldg., A/63-A, Luz Church Rd., Mylapore, Madras 600004.

Kannan (R.) & Co., 135/1, Bheemasena Garden Rd., Mylapore, Madras 600004.

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Lok Ray & Co., 2, Railway Station Rd., Kodambakam, Madras 600024.
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Mehta & Parekh, 11, Broadway, Madras 600001.
Mehta (M. C.) & Co., 1/5, G. Naicken St., Madras.
Mistry (E. B.) & Co., 7, Giri Rd., Madras 600017.
Mitra (T. K.) & Co., 54-C, Velachery Rd., Madras 600032.
Mohinder Puri & Co., Chandush, 105, Chamiers Rd., Madras 600035.
Moorthy & Co., 4-B, Numgambakkam High Rd., Madras 600034.
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Nahar & Co., N. S. C. Bose Rd., Madras 600001.
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Naidu (P. M. V.) & Co., 26-D, Kilpauk Garden Rd., Madras 600010.
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Narasimhan (M. S.) & Co., 301, L. Chetty St., Madras 600001.
Narayana Iyer & Co., 25, Vaidyaramier St., Madras.
Narayanan & Co., 14A, Pandaram St., Purasawalkam, Madras 600007.
Narayanan (V.), 34, Mosque St., Triplicane, Madras 600005.
Palaniappa & Co., Purusottam Bldgs., 193, Mount Rd., Madras 600002.
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Pathak (S. B.) & Co., No. 4, S. Mudali St., Madras 600003.
Peat Marwick Mitchell & Co., 122/2, Mount Rd., Madras 600001.
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Raju (K. V. C.) & Co., R. No. 111, T.N.C.C. Bldgs., No. III, Mount Rd., Madras 600006.
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Ranganathan (M. C.) & Co., 310/311, L. Chetty St., Madras 600001.
Rangaswamy (D.) & Co., 1/142, Mount Rd., Madras 600006.
Rangaswamy (S. G.) & Co., 17/18, Broadway, Madras 600010.
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Rao & Swamy, 2/2, Kutcheri Rd., Mylapore, Madras 600004.
Rao (S. S.) & Co., 7, K. Chetty St., Madras.
Rasappan & Co., 109, N. S. C. Bose Rd., Madras 600001.
Ricab & Co., 84, Mint St., Madras 600003.
Sainathan (J.) & Co., 44/2, Mowbray Rd., Alwarpet, Madras 600018.
Sam & Co., 26, Akbarabad, Kodambakkam, Madras 600024.
Sambamurti (M. N.) & Co., 9/1, Kanakasri Nagar, Cathedral Rd., Madras 600006.
Sampath Kumaran & Co., Purushottam Bldg., 193, Mount Rd., Madras 600002.
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Sankara Kumar & Co., 4392, Poonamalle High Rd., Madras 600010.

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Sankaran (N.) & Co., Kamalakam, 60/31, E. Elliot Rd., Mylapore, Madras 600004.
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Selvarajan & Co., 10, Mount Rd., Madras 600002.
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Shankar (N.) & Co., 13, R. Chettiar Rd., Madras 600010.
Sheriff & Krishnan, 151, Broadway, Madras 600001.
Singhi & Co., 78, N. S. C. Bose Road, Madras 600001.
Soni (P. R.) & Co., 86, Godown St., Madras 600001.
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Subramanian (V. B.) & Co., Flat 1, M.T.G. Block 'C', R. K. Nagar, Madras 600028.
Sukumaran & Co., 39, Big St., Triplicane, Madras 600005.
Sundar & Co., 314, T. Chetty St., Madras 600001.
Sundaram (R.) & Co., 288, L. Chetty St., Madras 600001.
Suri (G.) & Co., Dane House Extn., 2/1, North Beach Rd., Madras 600001.
Swami & Vasan, 193, Mount Rd., Madras 600002.
Swaminathan & Ranganathan, 369, Esplanade, G.T., Madras.
Tawkar & Co., 26, S. Mudali St., Madras 600003.
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R. L. Dalal & Co., 86, Dr. A. Besant Rd., Worli Naka, Bombay 400018.
Tata Consulting Engrs., Bombay House, Bruce St., Bombay 400001.
W. S. Atkins Pvt. Ltd., 21-A, Shakespeare Sarani, Calcutta 700017.
Water & Power Development Consultancy Service (I.) Ltd., L-18, N.D.S.E. Part-II, New Delhi 110049.

HOSPITALS, BOMBAY

Acworth Leprosy Hospital, Wadala, Bombay 400031.
B. Nanavati Hospital, S. Vivekanand Rd., Vile Parle, Bombay 400056.
B. C. J. Santa Cruz Gen. Hospital, S. Vivekanand Rd., Bombay 400054.
B. Y. L. Nair Hospital, Nr. Bombay Central Rly. Stn., Bombay 400008.
Bai Jerbai Wadia Hospital for Children, Acharya Donde Marg, Bombay 400012.
Bhatia General Hospital, Chikalwadi, J. Dadajee Rd., Bombay 400007.
Bombay Port Trust Hospital, Antop Hill Rd., Bombay 400031.
Breach Candy Hospital & Nursing Home, 60, B. Desai Rd., Bombay 400026.

Cama & Albless Hospital, Mahapalika Marg, Bombay 400001.

Charak Clinic (Dr. Cooper's), 21, Karve Rd., Bombay 400004.

Children's Orthopaedic Hospital, Haji Ali Park, K. Khade Marg, Bombay 400011.

Dharamdas Samaldas Kothari Public Health Centre, Kamala Kutir, C. P. Tank Rd., Bombay 400004.

Dr. Bacha's Memorial Belle-vue Nursing Home, La-Citadelle, M. Karve Rd., Bombay 400020.

Dr. Bhajekar Municipal Gen. Hospital, Dr. Bhajekar St., Bombay 400004.

Dr. R. N. Cooper Mun. Gen. Hospital, Juhu, Vile Parle (W) Bombay 400056.

'Eye Hospital', 375, D. Naoroji Rd., Bombay 400001.

G. T. Hospital, Tilak Rd., Bombay 400001.

Group of T. B. Hospitals, Sewri, Bombay 400015.

Habib Hospital & Rehmethai Maternity Home, 125, Jail Rd., (E), Bombay 400009.

Haji Bachooali Free Opthalmic Hospital, K. B. J. Merwanji St., Bombay 400012.

J. J. Group of Hospitals, J. J. Hosp. Comp., Bombay 400012.

Jerbai Wadia Hospital for Children, King Edward Rd., Bombay 400012.

K. B. Bhabha Hospital, Bandra, Bombay 400050.

K. B. Bhabha Hospital, Kurla, Bombay 400070.

K. E. M. Hospital, King Edward Rd., Bombay 400012.

Kasturba Hospital, Sane Guruji Marg, Bombay 400011.

Lokmanya Tilak Mun. Gen. Hospital, Sion, Bombay 400022.

Mahatma Gandhi Memorial Hospital, S. S. Rau Rd., Bombay 400012.

Mansadevi Tulsiram Mun. Gen. Hospital, Mulund, Bombay 400080.

Mental Hospital, Thana 400604.

Mother & Child Hospital, Gita Bldg., Ramabai Rd., Bombay 400007.

Municipal Eye Hospital, Kamathipura, Bombay 400008.

Municipal General Hospital, Rajawadi, Ghatkopar, Bombay 400077.

Nowrojee Wadia Maternity Hospital, King Edward Rd., Bombay 400012.

New Hospital for Women, M. Permanand Marg, Bombay 400004.

Osteopathic Clinic, Dunkeld, J. M. Mehta Rd., Bombay 400006.

Paras Nursing Home, 54, S. Vivekanand Rd., Andheri (W), Bombay 400058.

Petit Bomanjee Dinshaw Parsee Gen. Hospital, B. Desai Rd., Bombay 400026.

Petit Sakarbai Dinsha Hospital for Animals, S. S. Rau Rd., Bombay 400012.

Radhibai Watumull Sanatorium, 120, Savarkar Marg, Bombay 400016.

Ram Kunvar Charitable Xray Inst., Dnayaneshwar Mandir Rd., Bombay 400002.

S. K. Patil Arogya Dham, Daftary Rd., Bombay 400064.

Saifee Hospital, 15, Karve Rd., Bombay 400004.

St. Georges Hospital, P. D'Mello Rd., Bombay 400001.

Seth A. J. Bankerbihari Mun. E.N.T. Hospital, Napier Rd., Bombay 400001.

Sir Hurkisondas Nurrotumdas Hospital, Prarthnasamaj, Bombay 400004.

Suchak's Maternity & General Hospital, Dr. Mrs. Manchubhai Rd., Bombay 400064.

Tata Memorial Hospital, Hospital Ave., Bombay 400012.

N. S. General Hospital, Thana 400604.

HOSPITALS, CALCUTTA

Balananda Brahmachari Sabayatan, 105/2, Raja Dinendra St., Calcutta 700006.

Behala Hospital, 455, Diamond Harbour Rd., Calcutta 700034.

Calcutta Chest Hospital, 84, Acharya J. C. Bose Rd., Calcutta 700014.

Calcutta Gujarati Dawakhana, 8, Radha Bazar Lane, Calcutta 700001.

Calcutta Hospitals & Medical Research Institute, 7/2, D.H. Rd., Calcutta 700027.

Calcutta Voluntary Hospital, 145A, S. Bose Rd., Calcutta 700026.

Dum Dum Municipal Maternity Hospital, Dum Dum, Calcutta 700028.

Imambara Sadar Hospital, Chinsurah, Hooghly.

Kumup Sankar Ray T. B. Hospital, Jadavpur, Calcutta 700032.

M. N. Chatterjee Memorial Eye Hospital, 295/1, Acharya P. Chander Rd., Calcutta 700009.

Marwari Relief Society Hospital, 392, U. Chitpur Rd., Calcutta 700007.

Matri Mangal Pratisthan, 51, U. Chitpur Rd., Calcutta 700007.

Mohananda Brahmachari Sebayatan, 22A, Shib Kristo Daw Lane, Calcutta 700011.

Nilratan Sirkar Medical College, 138, Lower Circular Rd., Calcutta 700017.

North Howrah Hospital, 22, Guha Rd., Ghusuri, Howrah.

Dr. R. Ahmed Dental College & Hospital, 114, Lower Circular Rd., Calcutta 700014.

Sree Balaram Seva Mandir, Khardah, 24 Parganas.

Shri Shri Lakshminarayan Trust Maternity Home & Hospital, 4, Justice C. Madhab Rd., Calcutta 700020.

Sri Sri Balananda Brahmachari Matri Sevasadan, 455, Diamond Harbour Rd., Calcutta 700034.

Paschim Banga Samaj Seva Samity, Baranagar Hospital, 282, Madjid Bari Lane, Calcutta 700035.

HOSPITALS MADRAS

Arignar Anna Govt. Hosp. of Indigenous Medicine, Arumbakkam, Madras 600029.

E.S.I. Hospital, 37, Madhavakkam Tank Rd., Madras 600023.

Govt. Chest Inst. & T.B. Demo. & Trg. Centre, Spur Tank Rd., Madras 600031.

Govt. General Hospital, L. G. Nagar Rd., Madras 600002.

Govt. Hospital for Women & Children, Egmore, Madras 600008.

Govt. Kasturba Gandhi Hospital for Women & Children, Madras 600005.

Govt. Kilpaulk Medical College & Hosp., P.H. Rd., Madras 600010.

Govt. Royapettah Hospital, Madras 600014.

Govt. T.B. Sanatorium, Tambaram, Madras.

Govt. Thiruvoteswarar T.B. Hospital, Konnur High Rd., Otteri, Madras 600012.

Inst. of Child Health & Hosp. for Children, Halls Rd., Madras 600008.

Raja Sir Ramaswamy Mudaliar's Lying-In Hospital, Kamraj Rd., Madras 600013.

Silver Jubilee Children's Clinic, 1 Jeenis Rd., Madras 600015.

Stanley Hospital, Old Jail St., Madras 600001.

Tamil Nadu Govt. Opthalmic Hospital, Egmore, Madras 600008.

Tuberculosis & Chemotherapy Centre, Spur Tank Rd., Madras 600013.

HOSPITALS, NEW DELHI

Agarwal's Eye Institute, 15, Darya Ganj, Delhi 110006.

All India Blind Relief Society, F2, Lajpat Nagar, New Delhi 110024.

Anhals General Nursing Home, E. Park Rd., New Delhi 110005.

Aryavarta Polio Ashram, Aryavarta Bhavan, 79E, Kirti Nagar, New Delhi 110015.

Ayurvedic & Unani Tibbia Coll. Hospital, Karol Bagh, New Delhi 110005.

Balak Ram Hospital, 130, Timarpur, New Delhi 110007.

Banerji Nursing Home, Ansari Rd., 23, Darya Ganj, New Delhi 110006.

Cantt. General Hospital, Delhi Cantt. 110010.

Charak Clinic, Ansari Rd., Darya Ganj, Delhi 110006.

Chawla Hospital, Bara Tooti, Sadar Bazar, New Delhi 110006.

Children's Clinic, B64, Defence Colony, New Delhi 110003.

Delhi Child Health Centre, Fountain View, B. Ram Rd., 24, Darya Ganj, Delhi 110006.

Delhi Clinic Maternity & Surgical Nursing Home, 119E, Kamla Nagar, New Delhi 110007.

Delhi Maternity Hospital, Sadhu V. Marg, New Delhi, 110005.

Delhi Mental Health Clinic, F67, Bhagat Singh Mkt., New Delhi 110001.

Delhi Nursing & Maternity Home, 1, Ansari Rd., Darya Ganj, Delhi 110006.

Deshraj Maternity Hospital, 77, Darya Ganj, Delhi 110006.

Diwanchand Awal Nursing Home, 2, Jain Mandir Rd., New Delhi 110001.

Dr. Bhatia's Nursing Home 19B, Ansari Rd., Delhi 110006.

Dr. Joshi's Pvt. Hospital, Krishna Lodge, New Delhi 110005.

Dr. Kedarnath Sharma's Nursing Home, 1, Doctor's Lane, New Delhi 110001.

Dr. Luthra's Hospital, 15A/14, Ajmal Khan Rd., Karol Bagh, New Delhi 110005.

Dr. Mallick's Maternity & Nursing Home, F4/2, M. Town, New Delhi 110009.

Dr. Oberai's Sanjiwan Hospital, 2290, A. Samaj Rd., New Delhi 110005.

Dr. Sen's Nursing Home, Tilak Bridge, New Delhi 110001.

Dr. Sharma's Nature Cure Hospital, Opp. Masjid Dispensary, Delhi 110006.

Dr. Sharma's Nursing Home, A19, G. Kailash, New Delhi 110048.

Dr. Soni's Clinic, B26, NDSE, Part II, New Delhi 110049.

Dr. Vohra's Nursing Home, Rajouri Garden, New Delhi 110027.

Ear, Nose & Throat Clinic, C148, Defence Colony, New Delhi 110003.

Family Clinic & Maternity Home, 2286 Gurudwara Rd., Karol Bagh, New Delhi 110005.

Govind Ballabh Pant Hospital, J. L. Nehru Marg, New Delhi 110001.

Hamdard Research Clinic & Nursing Home, 2/3A, A. Ali Rd., New Delhi 110001.

Hemraj Jain Hospital, Bara Tooti, Delhi 110006.

Hemraj Jain Nursing Home, P. Dhiraj, Delhi 110006.

Hindu Rao Hospital, Subzi Mandi, New Delhi 110007.

Hospital for Mental Diseases, Shahdara, New Delhi 110032.

Infectious Diseases Hospital, Kingsway, New Delhi 110009.

Irwin Hospital, New Delhi 110001.

Jeewan Hospital, Jeewan Nagar, New Delhi 110014.

Jeewan Hospital Nursing Home, 67/1, Rohtak Rd., New Delhi 110005.

Jeewan Nursing Home, 2, Sadhu V. Marg, New Delhi 110005.

Kalavati Saran Children Hospital, Bgla. Sabh Marg, New Delhi 110001.

Kingsway Maternity Hospital, Hudson Lines, Kingsway, New Delhi 110009.

Krishna Nursing Home, 23, Khan Market, New Delhi 110003.

Lady Hardinge Medical College & Hospital, P. Kuin Rd., New Delhi 110001.

Lajpat Nagar Hospital, Laj Nagar, New Delhi 110024.

Leprosy Home, Taharpur, New Delhi 110032.

Majumdar Ayurvedic Clinic, H. Qazi, New Delhi 110006.

Moolchand Kharaitiram Hospital, Laj Nagar, New Delhi 110024.

Moti Nagar Hospital, Moti Nagar, New Delhi 110015.

Mrs. Girdhari Lal Maternity Hospital, J. L. Nehru Marg, New Delhi 110001.

Nature Cure Hospital, Jawahar Nagar, New Delhi 110007.

Navjeewan Clinic, 5/15, Ajmal Khan Rd., New Delhi 110005.

New Delhi Clinical Laboratory, E28 NDSE Part II, New Delhi 110049.

New Delhi Polyclinic, K35, Connaught Circus, New Delhi 110001.

New Delhi Tuberculosis Centre, J. L. Nehru Marg, New Delhi 110001.

Ortho Fracture Clinic, 13, N. Subbash Marg, New Delhi 110006.

Orthopaedic & Trauma (Accident) Clinic, 71, Ring Rd., Laj Nagar III, New Delhi 110024.

Prem Hospital, Hari Masjid, Pahar Ganj, New Delhi 110055.

Puri Maternity & Nursing Home, 2/21, Roop Nagar, New Delhi 110007.

Rajasthan Surgical Nursing Home, Prabhat Market, New Delhi 110005.

Rajora Mission Hospital, 2906, S. R. Bazaar, Delhi 110006.

Rana Nursing Home, JI/165, Rajouri Garden, New Delhi 110027.

Safdarjang Hospital, Safdarjang, New Delhi 110016.

Sahi Hospital, Mathura Rd., J. Pura, New Delhi 110014.

Sanghi's Nursing Home, C26, Green Park Extn., New Delhi 110016.

Sant Parmanand Blind Relief Mission, 18, Alipur Rd., Delhi 110006.

Sehgal's Nursing Home, B21, Kailash Colony, New Delhi 110048.

Sethi Maternity Nursing Home, 74F, Kamla Nagar, New Delhi 110007.

Shroff's Charity Eye Hospital, Darya Ganj, Delhi 110006.
Shyam Lal Eye Hospital, Dina-ka-Talab, Malka Ganj, New Delhi 110007.
Silver Jubilee Tuberculosis Hospital, Kingsway Camp, New Delhi 110009.
Sir Gangaram Hospital, Raj Nagar, New Delhi 110060.
Sondhi Nursing Home, 82A, Kamla Nagar, New Delhi 110007.
Srivastava Nursing Home, 5/3, Roop Nagar, New Delhi 110007.
St. Stephen's Hospital, Tis Hazari, Delhi 110006.
Sunder Lal Jain Charitable Eye Hospital, 26, Darya Ganj, Sadar Bazar, Delhi 110006.
Swami Dayanand Hospital, Shahdara, New Delhi 110032.
Dr. Talwar's Nursing Home, 11/5B, Sadhu V. Marg, New Delhi 110005.
Tilak Nagar Hospital, Tilak Nagar, New Delhi 110018.
Tirath Ram Shah Hospital & Nursing Home, Rajpur Rd., Delhi 110006.
Tuberculosis Hospital, Mehrauli, New Delhi 110030.
Verma Eye Clinic, 776C, Nr. Radhu Cinema, New Delhi 110032.
Veterinary Hospital, Qudsia Rd., Delhi 110006.
Veterinary Hospital, Tis Hazari, 110006.
Victoria Zanana Hospital, Darya Ganj, Delhi 110006.
Willingdon Hospital, New Delhi 110001.
Worsley's Maternity Home & Clinic, 58, Darya Ganj, Delhi 110006.

HOTELS (See also Chapter on "Tourists' Guide").

Ahmednagar (Maharashtra).
Ashoka Tourist Hotel, King's Rd.

Ambala Cantt. (Punjab).
Standard Hotel, Railway Rd.

Baroda (See Vadodara).

Bangalore (Mysore).
Airlines Hotel, 4 Madras Bank Rd.
Bombay Anand Bhavan Hotel, Chickpet.
Bombay Anand Bhavan Hotel, 1 Old Poor House Rd.
Chamundi Hotel Pvt. Ltd., The Palace.
Hotel Bangalore International, 2-A, 2-B, Crescent Rd., High Grounds.
Hotel Broadway, 12 Kempe Gowda Rd.
Hotel Kamadhenu, Trinity Circle, M. Gandhi Rd.
Madras Woodlands Hotel, 5, Sampangy Tank Rd.
Palace Hotel, 3 Ali Askar Rd.
Shilton Hotel, St. Mark's Rd.
Swiss Cottage, 33 Race Course Rd.
Victoria Hotel, 20/21, Residency Rd.

Belgaum (Mysore)
Hotel Brandavan, Maruji Lane Corner.

Bhopal (Madhya Pradesh)
Circuit House and M.L.A.'s Rest House.
Pagoda Hotel, Hamidia Rd.

Calcutta (West Bengal)
Astoria Hotel, 6/2/3, Sudder St.
Carlton Hotel, 2 Chowringhee.
Fairlawn Hotel, 13-A, Sudder St.
Grand Hotel, 15, Chowringhee.
Great Eastern Hotel, 1, 2 & 3, Old Court House St.
Hotel Hindustan International, 235/1, Acharya J. C. Bose Rd.
Hotel Majestic, 4C, Madan St.
Hotel Minerva, 11, Ganesh Chandra Ave.
Hotel Ru-Deen Pvt. Ltd., 21B, Loudon St.
Hotel West End, 25 Waterloo St.
Lytton Hotel, 14, Sudder St.
New Kelinworth Hotel, 1 & 2, Little Russel St.
New Central Hotel, 90, Chittaranjan Ave.
Park Hotel, 17-Park Lane.
Ritz Continental Hotels Ltd., 182/2, Chowringhee.
Sagar Hotel, 11, Waterloo St.
Spences Hotel Pvt. Ltd., 4, Wellesley Place.
Stockman Hotel Pvt. Ltd., 12,Park St.

Coimbatore (Tamil Nadu)
Hotel Alankar, Sivaswamy Rd., Ramnagar.
Hotel Guru, 16/54, Raja St.

Cuttack (Orissa)
Cuttack Hotel, Near Rly. Stn.
Eastern Hotel.
Circuit House.

Dalhousie (Himachal Pradesh)
Aroma-in-Claire's Hotel.
Grand View Hotel.

Dehradun (Uttar Pradesh)
Hotel Price, Hardware Rd.
Hotel Kwality, 19, Rajpur Rd.

Faridabad (Haryana)
Holiday Inn.

Gauhati (Assam)
Happy Lodge.

Gopalpur on Sea (Orissa)
Palm Beach Hotel.

Gwalior (Madhya Pradesh)
Hotel Gujri Mahal, High Court Lane, Lashkar.
Usha Kiron Palace Hotel, Jai Vilas Palace.

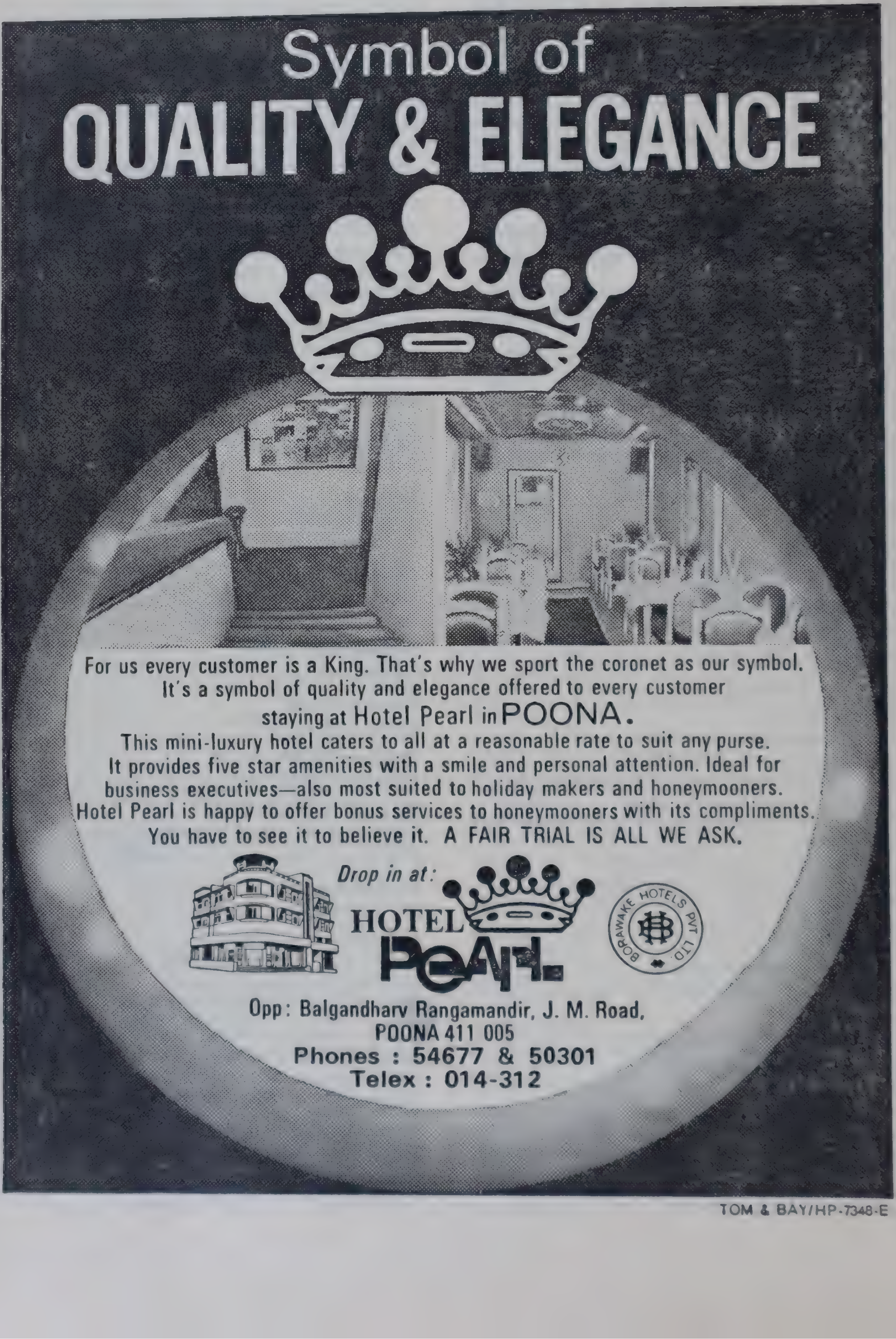
Imphal (Manipur)
Hotel Manipur.

Indore (Madhya Pradesh)
Central Hotel, 27, M. Gandhi Rd.
Lantern Hotel, North Tukoganj.
Hotel Jahaz Mahal, 5, R. Tagore Marg.

Jabalpur (Madhya Pradesh)
Ashok Hotel, Wright Town.
Jackson's Hotel, Civil Lines.
Pagoda Hotel, 313, Nepier Town.

Jamshedpur (Bihar)
Tisco Hotel, 7B Rd.

Kalimpong (West Bengal)
Tourist Lodge.



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TOM & BAY/HP-7348-E

Kanpur (Uttar Pradesh)
Berkeley Hotel, Civil Lines.
Sarvashri Meghdoot Hotels, Behari Lal Bldg., 17/3B, The Mall.

Lucknow (Uttar Pradesh)
Carlton Hotel, Shahnajaf Rd.
Hotel Gulmarg, Amin-ud-daula Park.

Ludhiana (Punjab)
Gulmor Hotel, Ferozpur Rd.
Hotel Shiraz, Ferozpur Rd.

Mahabaleshwar (Maharashtra)
Fredrick's Hotel.
Ritz Hotel, Wilson Point Rd.
Race View Hotel.

Mangalore (Mysore)
Hotel Annella, Hampankatta.
Moti Mahal, Falnir Rd.

Manipal (Mysore)
Valley View International Health Club.

Matheran (Maharashtra)
Lords Central Hotel.
Rugby Hotel.
Divadkar's Hotel, Opp. Rly Stn.

Mussoorie (Uttar Pradesh)
Connaught Castle Hotel, The Mall.
Hakman's Grand Hotel, The Mall.
Hotel Roan-Oke.
Savoy Hotel.
Sylverton Hotel, Kulri Bazar.

Nagpur (Maharashtra)
Mount Hotel, Commercial Rd.
Needo's Hotel & Restaurant, Sangam Bridge, Sitabaldi.
Hotel Shyam, Malviya Rd., Sitabaldi.

Nasik (Maharashtra)
Green View Hotel, Trimbak Rd.
Hotel Mazda & Cafe, Agra Rd.

Patna (Bihar)
Hotel Natraj, Ashok Raj Path.
Hotel Republic, Exhibition Rd.
New Agarwal Hotel, Station Rd.
Palace Hotel, Gandhi Maidan.

Poona (Maharashtra)
Hotel Amir, 15-A, Connaught Rd.
Hotel Blue Diamond, 11, Koregaon Rd.
Dreamland Hotel, 14, Connaught Rd.
Hotel Europa, 4, Koregaon Rd.
Hotel Gulmohr, 15-A/1, Connaught Rd.
Hotel Pearl, Opp. Balgandhan Rangamandir, J. M. Rd., Poona 411005.
Ritz Hotel, 6, Connaught Rd.
Hotel Shreyas, 124/B, Apte Rd.
Wellesley Hotel, 12-A, Connaught Rd.

Ranchi (Bihar)
Hotel Yuvraj.

Roorkee (Uttar Pradesh)
Polaris Hotel, Bar & Restaurant.

Shillong (Assam)
Pinewood Hotel.
Circuit House & Inspection Bungalow.

Simla (Himachal Pradesh)
Himland Hotel, Circular Rd.
Oberoi Cecil, The Mall.
Oberoi Clarkes, The Mall.

Surat (Gujarat)
Apsara, Lal Darwaja.
Hotel Ashima, Opp. Rly. Stn.

Trichur (Kerala)
Tourist Bungalow.

Vadodara (Gujarat)
Green Hotel, Race Course Rd.
Hotel Utsav, Prof. Manekrao Rd.

Vijaywada (Andhra Pradesh)
Hotel Manorama, Bunder Rd.
Hotel Nataraj, Congress Office Rd.
Sri Durga Bhavan, Near R.T.C. Bus Stand, Elluru Rd.
Sri Lakshmi Vilas Modern Cafe, Governorpet.
Welcome Hotel, Sumathi Bldgs., Besant Rd., Gandhi Nagar.

Visakhapatnam (Andhra Pradesh)
Hotel Apsara, 6/134, Waltair Main Rd.
Hotel Ooty, Dabagardens.
Hotel Poorna, Poorna Bldgs., Main Rd.
Marina Hotel, Beach Rd.
Palm Beach Hotel, Waltair.
Sun-n-Sea, Beach Rd.

LIBRARIES

Andhra Pradesh

American Culture Centre Library, Saifabad, Hyderabad.
American Studies Research Centre Library, Hyderabad 500007.
A. P. Agri. University Library, Dilkusha, Hyderabad 500004.
A. P. Library Association, Sri Sarvotham Bhawanam, Vijayawada 520002.
Andhra University Library, Waltair.
Besant Theosophical College Library, Madampalle, Chitoor 517001.
Branch Library, Ambajipeta, East Godavari Dist.
Branch Library, Asifabad, Adilabad Dist.
Branch Library, Badvel, Cuddapah Dist.
Branch Library, Bhainsa, Balangir Dist.
Branch Library, Boath, Adilabad Dist.
Branch Library, Bukkarayasamudram, Anantapur Dist.
Branch Library, Chennur, Cuddapah Dist.
Branch Library, Guntakal 515801.
Branch Library, Garantala, Hindupur 515201.
Branch Library, Jagannaickpur, East Godavari Dist.
Branch Library, Kadiri, Anantapur Dist.
Branch Library, Khanapur, Adilabad Dist.
Branch Library, Kodur, Rajampet Tq., Cuddapah Dist.
Branch Library, Kotteagudem, Khammam 507001.
Branch Library, Kothapeta.
Branch Library, Luksettipet, Adilabad Dist.

Branch Library, Madupallia, *via* Madhiru, Khammam Dist.
Branch Library, Malald, Warangal 506002.
Branch Library, Mancherial, Adilabad Dist.
Branch Library, Mudhol.
Branch Library, Mulung, Panlal Taluk.
Branch Library, Narsimapet, Warangal Dist.
Branch Library, Parkal, Kareemnagar Dist.
Branch Library, Pulivendla, Cuddapah Dist.
Branch Library, Rayachoti, Cuddapah Dist.
Branch Library, Sidhout Tq., Cuddapah Dist.
Branch Library, Sirpur, Warangal Dist.
Branch Library, Yadiki, Tadipatri Taluk.
Children's Library, Anantapur 515001.
Children's Library, Cuddapah 516001.
Children's Library, Kakinada 533001.
City Central Library, Hyderabad 500001.
Dist. Central Library, Anantapur 515001.
Dist. Central Library, Cuddapah 516001.
Dist. Central Library, Kakinada 533001.
Dist. Central Library, Khammam 507001.
Dist. Central Library, Nellore 524001.
Dist. Central Library, Sangareddy 502001.
Dist. Central Library, Ulkerabad.
Dist. Central Library, Vikarabad, Hyderabad Dist.
Dist. Central Library, Warangal 506002.
Government Arts College Library, Anantapur 515001.
Guntur Zilla Granthalaya, Sangham, Railpeta, Guntur Dist.
Kendriya Sanskrit Vidyapeeth Library, Tirupati 517501.
Local Library, Adilabad 504001.
Local Library, Anantapur 515001.
Local Library, Nalgonda 508001.
Local Library, Kareemnagar 505001.
Local Library, Khammam 507001.
Local Library, Krishna, Masulipatnam 521001.
Local Library, Mahaboobnagar 509001.
Local Library, Nizamabad 503001.
Local Library, Srikakulam 532001.
Local Library, Visakhapatnam 530001.
Local Library, Warangal 506002.
Local Library, Eluru 534001.
N. B. College Library, Hyderabad 500001.
Old Guntur Library, Association, Guntur 522001.
Osmania University Library, Hyderabad 500001.
Papuji Granthalayam, Hanamkonda 506001.
Post Graduate Centre Library, Anantapur 515001.
Public Library, Hyderabad 500001.
S. D. G. S. College Library, P.O. Hindupur 515201.
Shri Padmavathi Women's College Library, Tirupati 517501.
Sri Venkateswara University College of Engg. Library, Tirupati 517501.
Sri Venkateswara University Library, P.B. 17, Tirupati 517501.
State Central Library, Hyderabad 500001.
Technical Library, Bharat Heavy Electricals Ltd., Hyderabad 500032.
Vidyanagar Library, P.O. Gudur 521149.

Assam

Assam Library Association, Basistha Rd., P.O. Silpubhuri, Gauhati 781001.
Dibrugarh University Library, Dibrugarh 786001.
Dist. Library, Gauhati 781001.
Dist. Library, Nowgong 782001.
Dist. Library, Sibragar, P.O. Jorhat 785001.
Gauhati University Library, Jalukbari, Gauhati 781001.
Regional Research Laboratory Library, Jorhat 785006.
State Central Library, Shillong 793001.

Bihar

A. N. Sinha Institute of Social Studies Library, Patna 800001.
Barauni Oil Refinery Library, Dist. Monghyr 811201.
Bhagalpur University Library, Bhagalpur 812001.
Bihar Rajya Pustakalaya Sangh, Sinha Library Rd., Patna 800001.
Central Technical Library, TELCO, Jamshedpur 831001.
Gaya College Library, Gaya 823001.
Hindi Library, Sohsarai, Patna 800001.
Irrigation and Rain Research Institute Library, Meghdut, Patna 800004.
Mannu Lal Magadh University Library, P.B. 30, Gaya 823001.
National Institute of Foundry and Forge Technology Library, Telephone Bhavan, P.O. Dhurwa, Ranchi 834001.
Nehru Pustakalaya and Natya Parishad, Nadiyani, P.O. Kuris, Nadia, Darbhanga.
Netrhat School Library, *via* Ranchi, Netrhat 834001.
Patna University Library, Patna 800001.
Rajindra Medical College Library, Ranchi 834001.
Ram Dayalu Singh College Library, Muzaffarpur 842001.
Ranchi Agricultural College Library, Kanke, Ranchi 834001.
Rannagiva Pandey College Library, Arer, Sahabad.
Regional Institute of Technology Library, Jamshedpur 831001.
Sinha Library, P.B. 62, Patna 831001.
Samaj Sadan Pustakalaya, Village Govindpur, P.O. Bangpur, *via* Barwalpur, Patna 831001.
Shri Ram Swarup Pustakalaya, Bhandurpur, P.O. Krowta, Patna 831001.
Shri Umakant Sarvajanik Pustakalaya, P.O. Shemrur Bhaya, Lohana Rd., Darbhanga.
Tata Iron & Steel Co. Ltd., Library, Jamshedpur 831001.
T. N. B. Law College Library, Bhagalpur 812001.

Chandigarh

Central State Library, Sector-17, Chandigarh 160017.
Govt. Basic High School Library, Sector 20D, Chandigarh 160017.
Govt. Girls Higher Secondary School Library, Sector 18, Chandigarh 160017.
Govt. Post-Graduate Basic Training College Library, Chandigarh 160017.
Punjab University Library, Chandigarh 160017.
State Central Library, Sector-17, Chandigarh 160071.

Delhi

All India Institute of Medical Sciences Library, Ansari Nagar, New Delhi 110016.
American Libraries Book Procurement Centre, Sheila Theatre Bldg., New Delhi 110001.
American Library, U.S.I.S. 24, Curzon Rd., New Delhi 110001.

British Council Library, All India Fine Art and Craft Society Bldg., New Delhi.

Central Library, D.M.C. Kashmere Gate, Old Hindu College Bldg., Delhi 110006.

Central Road Research Institute Library, New Delhi.

Central Secretariat Library, North Block, New Delhi.

Central Water & Power Commission Library, West Block No. 1, Wing No. 3, R. K. Puram, New Delhi 110022.

Civil Aviation Dept. Library, R. K. Puram, East Block Level IV, New Delhi 110022.

Council of Scientific & Industrial Research Library, Rafi Marg, New Delhi 110022.

Delhi Public Library, S. P. Mukherjee Marg, Delhi 110006.

Delhi University Library, University Bldg., Delhi 110007.

Director General of Security Office Library, Block V East, Level II, R. K. Puram, New Delhi 110022.

Directorate of Economics and Statistics Office Library, Ministry of Food & Agriculture, Krishi Bhawan, New Delhi.

Directorate General of Employment & Training Office Library, Shram Shakti Bhawan, Rafi Marg, New Delhi.

F.A.O. of the United Nations Library, 1, Ring Rd., New Delhi 110012.

Federation of Indian Chambers of Commerce & Industry Library, New Delhi 110001.

Govt. Library, Najafgarh, New Delhi 110015.

Govt. of India Publications, Civil Lines, Old Secretariat, Delhi.

Hans Raj College Library, Delhi 110007.

Hindu College Library, Delhi 110007.

Indian Agricultural Research Institute Library, New Delhi 110012.

Indian Council for Cultural Relations Library, Azad Bhawan, New Delhi 110001.

Indian Council of Agricultural Research Library, Krishi Bhawan, New Delhi 110001.

Indian Council of World Affairs Library, Sapru House, Barakhamba Rd., New Delhi.

Indian Institute of Technology Library, Hauz Khas, New Delhi 110029.

Indian Investment Centre Library, N.I. Bldg., Parliament St., New Delhi 110001.

Indian Law Institute Library, Bhagwandas Rd., New Delhi.

Indian P & T Department Library, Parliament St., New Delhi 110001.

I.N.S.D.O.C. Library, Hillside Rd., New Delhi 110012.

Indian School of International Studies, Sapru House, New Delhi 110001.

Indian Standard Institute Library, Manak Bhawan, New Delhi.

Information & Documentation Centre Library, Documentation Division, Metcalf House, Delhi 110006.

Institute of Audio Visual Library, Indraprastha Estate, New Delhi.

Institute of Economic Growth Library, University Enclave, Delhi 110007.

Institute of Engineers Library, Delhi Centre, Bahadur Shah Zafar Marg, New Delhi.

Institute of Post-Graduate Evening Studies Library, University of Delhi, Delhi 110007.

Jama Rural Institute Library, Jamia Millia Islamia, P.O. Jamia Nagar, New Delhi 110025.

Lady Shri Ram College Library, Lajpat Nagar, New Delhi.

Lalit Kala Akademi, Rabindra Bhawan, New Delhi.

Marwari Public Library, Delhi 110006.

Mata Sundri College Library, Mata Sundri Rd., New Delhi.

Maulana Azad Medical College Library, Bahadur Shah Zaffar Marg, New Delhi.

Max Mueller Bhawan Library, 3, Curzon Rd., New Delhi 110001.

Ministry of Commerce, Industry and Supply Library, Udyog Bhawan, New Delhi.

Ministry of Defence Library, South Block, Room No. 129-E, New Delhi.

Ministry of External Affairs Library, Patiala House, New Delhi 110001.

Ministry of Finance Library, Govt. of India, North Block, New Delhi 110001.

Ministry of Food and Agricultural Library, Krishi Bhawan, Rafi Marg, New Delhi 110001.

Ministry of Home Affairs Library, Department of Administrative Reforms, Sardar Patel Bhawan, Parliament St., New Delhi 110001.

Ministry of Labour and Employment Library, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.

Ministry of Steel & Heavy Engineering Library, Udyog Bhawan, Maulana Azad Rd., New Delhi 110011.

Ministry of Transport and Shipping Library, Transport Bhawan, 1, Parliament St., New Delhi 110001.

Modern School Library, Barakhamba Rd., New Delhi 110001.

Parliament Library, Parliament House, New Delhi 110001.

Planning Commission Library, Yojna Bhawan, New Delhi 110001.

Railway Board Library, Ministry of Railways, Rail Bhawan, New Delhi.

Ratan Tata Library, Delhi School of Economics, University of Delhi, Delhi 110007.

Registrar of Newspapers of India Office Library, Udyog Bhawan, New Delhi.

Research and Reference Division Library, Ministry of Information and Broadcasting, Akashwani Bhawan, New Delhi 110001.

Sahitya Akademi Library, 35, Bahadur Shah Zafar Marg, Rabindra Bhawan, New Delhi.

Shri Ram College of Commerce Library, Patel Marg, Delhi 110007.

Shrivaji College Library, New Delhi.

Statistical Organisation Library, Sardar Patel Bhawan, New Delhi 110001.

UNESCO Library, Ring Rd., New Delhi.

University Grants Commission Library, New Delhi.

U.S.I.S. Bhavalpur House, New Delhi.

Vallabhbhai Patel Chest Institute Library, University of Delhi, Delhi 110007.

Women's College Library, Timarpur, Delhi 110007.

Women's Polytechnic Library, Kashmere Gate, Delhi 110006.

Goa, Daman & Diu

Central Library, Government of Goa, Daman & Diu, Panaji 403001.

College of Engineering Library, C/o Govt. Polytechnic, Panaji 403001.

Gujarat

Ahmedabad Textile Industries Research Association Library, Nawrangpura, Ahmedabad 380009.
B. M. Institute Library, Ahmedabad.
Central Library, Bank Rd., P.B. 15, Vadodara 390001.
D. G. Shikshan Mahavidyalaya Library, Aliabada. Jamnagar Dist.
District Library, Rajkot 360001.
Gandhi Samiti Library, Bhavnagar 364001.
Gujarat Ayurvedic University Library, A. K. Jama Bldg., Hospital Rd., Jamnagar 361001.
Gujarat University Hostel Library, B-Block, Room No. 8, Ahmedabad 380009.
Gujarat University Library, Ahmedabad.
H. K. Arts College Library, Ahmedabad 380009.
Indian Institute of Management Library, Vastrapur, Ahmedabad.
Jeewan Shanti, 50-A, Swastic Society, P.O. Nawrangpura, Ahmedabad.
National Photo Documentation Centre Library, Block No. 7, Dhanji Bhai Estate, Mission Rd., Ahmedabad 380001.
R. G. T. College Library, Porbandar.
Sainik School Library, P.O. Balachadi, Jamnagar Dist.
Sardar Patel University Library, Vallabh Vidya Nagar, Kaira Dist.
Saurashtra University Library, Dharampur Utaro, Kavi Nanalal Rd., Rajkot 360001.
Sheth Maneklal Jethabhai Pustakalaya, Ellis Bridge, Ahmedabad.
Shri Dayanand Free Reading Room & Library, Ranjit Rd., Jamnagar 361001.
Shri Dayaram Free Reading Room & Library, Ranjit Rd., Jamnagar 361001.
Smt. Hansa Mehta Library, M.S. University of Baroda, Station Rd., Vadodara 390001.
South Gujarat University Library, Surat 395001.
University of Baroda Library, Vadodara 390001.

Haryana

Govt. College Library, Rohtak 124001.
Kurukshetra University Library, Kurukshetra.
Mukund Lal National College Library, Yamuna Bazar, Ambala 133001.
Punjab Agricultural University Library, Hissar 125001.
State Central Library, Staff Rd., Ambala City 133001.

Himachal Pradesh

Central Postal Research Institute Library, Simla 171001.
Central State Library, Solan.
Government Dist. Library, Dharamsala 176215.
Indian Institute of Advanced Studies Library, Rashtrapati Niwas, Simla 171005.
Punjab Agricultural University Library, Palampur 176061.

Jammu & Kashmir

Archaeological Survey of India Library, Frontier Circle, Srinagar 190001.
J. & K. University Library, Jammu Division, Jammu 180001.

Kerala

American Culture Central Library, Trivandrum 695001.
Kerala Granthalaya Sangham, Trivandrum 695001.
Kerala University Library, Trivandrum 695001.
S. B. College Library, Changanacherry, Kottayam 686001.
Trivandrum Public Library, Trivandrum 695001.

Madhya Pradesh

A. E. C. Training College Centre Library, Pachmarhi.
Directorate of Panchayats and Social Welfare Library, Bhopal 462001.
Govt. Central Library, Gwalior 474001.
Govt. Engineering College Library, Rewa 486001.
Govt. Polytechnic Library, Jabalpur 482001.
Heavy Electricals (Ind.) Ltd. Library, Piplani, Bhopal 462001.
Indore General Library, 436, M.G. Marg, Indore 452001.
Indore Sambhag Pustakalaya Sangh, 11, Khaitipura Rd., Indore 452001.
Indore School of Social Work Library, Seminary Bunglow, Indore 452001.
Jawaharlal Nehru Krishi Vishwa Vidyalaya Library, P.B. 80, Krishi Nagar, Jabalpur 482001.
Jiwaji University Library, Gwalior 474001.
M. P. Education Deptt. Library, Bhopal 462001.
Maulana Azad College of Technology Library, Bhopal 462001.
R. A. K. College of Agriculture Library, Sehore.
Ravishankar University Library, Raipur 492001.
Regional College of Education Library, Shyamala Hills, Bhopal 462001.
University of Indore Library, University House, Indore 452001.
University Library, Jabalpur 482001.
University Library, University of Saugar, Saugar 470001.
Vikram University Maharaja Jiwaji Rao Pustakalaya, Ujjain 456001.
Veterinary College Library, Jabalpur 482001.

Maharashtra

Ahmednagar College Library, Ahmednagar 414001.
Asia Publishing House Pvt. Ltd. Library, Calicut St., Ballard Estate, Bombay 400001.
British Council Library, N. K. Mehta Institutional House, Backbay Recl., Churchgate, Bombay 400020.
Cotton Technology Research Laboratory Library, Indian Council of Agriculture Research, Adenwala Rd., Matunga, Bombay 400019.
Deccan College Library, Pune 411006.
Directorate of Publicity Office Library, Sachivalaya, Bombay 400032.
Federation of Publishers & Booksellers Association in India, C/o Book Centre Pvt. Ltd., 172, Naigaum Cross Rd., Dadar, Bombay 400014.
Fergusson College Library, Pune 411008.
Gujarat Society Library, Nehru Rd., Bombay 400057.
H. P. T. College Library, Nasik 422005.
Institute Library, Pune 411006.
Jayakar Library, Pune 411007.
Kirti College Library, Caddell Rd., Dadar, Bombay 400028.
Laxminarayan Institute of Technology Library, Nagpur 440001.
Maharashtra Rajya Granthalaya Sangh, Naigaum Cross Rd., Dadar, Bombay 400014.
Maharashtra Regional Library, 580/1, Sadashiv Peth, Pune 411002.

Maharashtra University Library, Aurangabad 431001.
Marathwada University Library, Aurangabad 431001.
Mumbai Marathi Granth Sangrahalaya, 172, Naigaum Cross Rd., Dadar, Bombay 400014.
Nagpur Veterinary College Library, Seminary Hills, Nagpur 440001.
National Defence Academy Library, 248, Gunj Peth, Pune 411002.
Panel College Library, Dixit Rd., Vile Parle East, Bombay 400057.
Peoples Free Reading Room and Library, Dhobitalao, Bombay 400002.
Popular Book Depot Library, Dr. Bhadkamkar Rd., Bombay 400007.
Shivaji University Library, Kolhapur 416002.
S.N.D.T. Women's University Library, P.B. 750, Bombay G.P.O., Bombay 400001.
Spicer Memorial Library, Aundu Rd., Ganeshkhind, Pune 411007.
Technical Library, National Rayon Corpn. Ltd., Mohone, Kalyan, Thana Dist.
University Library, Nagpur University, Nagpur 440001.
University Library, University of Bombay, Bombay 400001.
U.S.I.S. American Library, 16, Queen's Rd., Bombay 400020.

Mysore

Central Library, Dharwar 580001.
D.G.S. Govt. College Library, Chikmagalur 577101.
Indian Institute of Science Library, Bangalore 560012.
Karnatak Art College Library, Dharwar 580001.
Karnatak University Library, Chhola Mahabaleshwar, Dharwar 580003.
Methodist Girls High School, Kolar 563101.
Mysore University Library, Manaser Gangotri, Mysore 570001.
Regional College of Education Library, Mysore 570001.
Shri Ramakrishna Vidyasala Library, Mysore 570002.
State Central Library, Seshadri Iyer Memorial Hall, Cubbon Park, Bangalore 560020.
St. John's Medical College Library, St. Mary's Town, Bangalore 560005.
United Technical College Library, 17, Miller's Rd., Bangalore 550006.
United Theological College Library, 17, Miller's Rd., Bangalore 560006.
University of Agricultural Science Library, Hebbal, Bangalore 560024.
University of Bangalore Library, Bangalore 560001.

Orissa

Co-op. Training Centre Library, Gunjam.
State Information Centre Library, Bhubaneshwar 751012.
Utkal Library Association, P.O. Nayagarh, Puri Dist.
Utkal University Library, Bhubaneshwar 751001.

Punjab

Central Public Library, Patiala 147001.
Central Sainik School, Ferozepur 152001.
Government College Library, Nabha.
Khalsa College Library, Patiala 147001.
Mata Gurji College Library, Fategarh, Patiala 147001.
Municipal Pubilic Library, Purani Kotwali Chowk, Patiala 147001.
Public Library, Nabha.
Punjab Agricultural University, Ludhiana 141001.
Punjab Library Association, 233, Model Town, Jullundur City 144001.

Rajasthan

Banasthali Vidya Peeth Library, P.O. Banasthali Vidya Peeth.
Central Electronics Engineering Research Institute Library, Pilani.
Central Library, Birla Institute of Technology and Science, Pilani.
Divisional Library, Kota 324001.
Maharaja's Public Library, Jaipur 302001.
Nehru College of Education Library, Sangaria.
Rajasthan University Library, Jaipur 302001.
Regional College of Education Library, Pushkar Rd., Ajmer 305001.
Social Education Library, Dy. Director's Office, Bikaner 334001.
University Central Library, University of Udaipur, Ishwar Niwas Bldg., Udaipur 313001.

Tamil Nadu

Annamalai University Library, P.O. Annamalainagar.
Christian Medical College Library, Vellore 632001.
Connemara (State Central) Public Library, Egmore, Madras 600008.
Food Corporation of India Library, 1/144, Mount Rd., Madras 600006.
Indian Institute of Technology Library, Madras 600036.
Indian Standards Institution Library, Madras Branch Office, 54 General Patter's Rd., Madras 600002.
Madurai University Library, Madurai 625002.
United States Information Service Library, 158, Mount Rd., Madras 600002.
University of Madras Library, Madras 600005.

Tripura

Basic Training College Library, P.O. Panisagar, Tripura.

Uttar Pradesh

American Academy of Varanasi Library, Rewa Place, Varanasi 221001.
Agricultural Institute Library, Allahabad 211001.
Banaras Hindu University Library, Varanasi 221001.
Bareilly College Library, Bareilly 243001.
Bharat Mohan Free Public Library-cum-Reading Room, P.O. Bhagpat, Meerut 250001.
Dept. of Library Science, Agra College, Agra 282001.
Fertilizer Corpn. of India Ltd., Library, P.O. Fertilizer Factory, Gorakhpur 273001.
Forest Research Institute and College Library, P.O. New Forest, Dehra Dun 248001.
Gorakhpur University Library, Gorakhpur 273001.
Hindi Sahitya Sammelan, Allahabad 211001.
Institute of Engineering Library, River Bank Colony, Lucknow 226001.
Kashi Vidya Peeth Library, Varanasi 221001.
Kund Kund Jain Degree College, Khatauli, Muzaffarnagar 251001.
Lucknow University Library, Lucknow 226001.
Madan Mohan Malviya Engineering College Library, Gorakhpur 273001.

Maulana Azad Library, Aligarh Muslim University, Aligarh 202001.

Meerut University Library, Meerut 250001.

National Botanical Gardens Library, Lucknow 226001.

Purvotter Railway Kendriya Granthalaya, Gorakhpur 273001.

R. & T. Institute Oil and Natural Gas Commission Library, Kewalgarh, Dehra Dun 248001.

S. D. College Library, Muzaffarnagar 251001.

State Central Library, Uttar Pradesh, Allahabad 211001.

T. D. College Library, Jaunpur 222001.

U.S.I.S. Library, Lucknow 226001.

University Library, Roorkee.

U.P. Agricultural University Library, P.O. Pantnagar, Nainital 263001.

U.P. Library Association, 535, Neta Nagar, Triveni Marg, Allahabad 211001.

U.P. Vidhan Pustakalaya, Council House, Lucknow 226001.

Varanaseya Sanskrit Vishwavidyalaya Library, Varanasi 221001.

West Bengal

Anthropological Survey of India Library, Indian Museum, 27, Chowringhee Rd., Calcutta 700013.

Bangabasi College Library, 110/15, Silampur Rd., Dhakuria, Calcutta 700031.

Bengal Library Association, P-134, C.I.T. Scheme No. 52, Bechulal Rd., Entally, Calcutta 700014.

Botanical Survey of India Library, Office of the Dy. Director, P.O. Indian Botanical Garden, Botanical Garden, Howrah, Calcutta 700014.

Burdwan District Library, Burdwan 713101.

Calcutta Information Centre Library, 1/1, Lower Circular Rd., Calcutta 700020.

Calcutta University Library, Asutosh Bldg., Calcutta 700013.

Central Library, University of Burdwan, 713101.

Central Mechanical Engineering Research Institute Library, Durgapur 713209.

Central Reference Library, Belvedere, Calcutta 700027.

Damodar Valley Corpn. Library, Anderson House, Calcutta 700027.

Dist. Library, Rahara, P.O. Rahara, 24 Parganas.

Dist. Library, Tamluk, Midnapur 721101.

Geological Survey of India Library, 29, Chowringhee Rd., Calcutta 700013.

I. N. B. National Library, Belvedere, Calcutta 700027.

Indian Institute of Management Library, 56-A, B.T. Rd., Calcutta 700050.

Indian Institute of Technology Library, Kharagpur 721301.

Indian Museum Library, 27, Jawaharlal Nehru Rd., Calcutta 700013.

Indian Statistical Institute Library, 203, Barrackpur Trunk Rd., Calcutta 700025.

Jadavpur University Library, Calcutta 700032.

Krishnagar Women's College Library, Krishnagar, Nadia 741101.

Midnapur Dist. Library, Midnapur 721101.

National Rayon Corpn. Ltd., Library, P.O. Mohone, Dist. Thana, Kalyani.

Ramakrishna Mission Ashram, P.O. Sarisha, 24 Parganas.

Ramakrishna Mission Institute of Culture Library, Gole Park, Calcutta 700029.

Sainik School Library, Purulia, P.O. Nanguna 723101.

Sanskrit College Library, College St., Calcutta 700012.

State Central Library, Education Deptt., 56-A, B.T. Rd., Calcutta 700050.

Technical Information Centre for Chemical Ind., 7, Bruce St., 2nd Fl., Calcutta.

U.S.I.S. Library, Chowringhee Rd., Calcutta 700013.

University of Kalyani Library, Kalyani 741235.

University of North Bengal Library, Raja Ram Mohan Pur, Darjeeling 734101.

Vishwa Bharati University Library, P.O. Shanti Niketan, Birbhum.

West Bengal Secretariat Library, Home Dept., Calcutta 700001.

Zoological Survey of India Library, 29, Jawaharlal Nehru Rd., Calcutta 700012.

MANAGEMENT CONSULTANTS

(The bracketed alphabets next to the name indicate B — Business ; E — Engineering ; I — Industrial ; M — Management ; Ma — Marketing ; T — Technical).

Maharashtra

Almeco (M.E.), Sambava Chambers, Sir P. Mehta Rd., Bombay 400001.

Anwar Divecha & Associates (M. Ma.), 1113 Prasad Chambers, Swadeshi Mills Compound, Charni Rd., Bombay 400004.

ENDESCO PVT. LTD.

Industrial & Management Consultants, Computer Consultants.

Registered Office : Bombay Market Bldg.,
Tardeo Rd., Bombay 400034.

Phone : 393736/362834. Grams : "ENDESCON."

Chairman & Managing Director : H. N. Thadani.

Foreign Associates : Ramseyer & Miller Inc., New York, (U.S.A.), Iron & Steel Consultants, Industrial Market Research Ltd., London S.W. I (U.K.).

Project Engineering : Market research, Planning for new projects and for expansion of industries for Agricultural machinery, Cement, Engineering, Forging Shops, Rolling Mills, Paper, Chipboard and Fibre Board Plants, Sugar, Textiles, Synthetic fibres.

Management Consultants : Management organisation, financial controls, cost accounting, production planning and equipment utilisation, work standards, job evaluation, piece rates and incentives, material handling and mechanisation, stores organisation and inventory control, material utilisation and waste control, operation research, Pert/CPM, valuation of plant, machinery and buildings, selection of management and technical staff, market research.

BEAM Services (B.E.M.) Colaba Chambers, Wodehouse Rd., Bombay 400005.

F. E. Da Costa & Associates (M.I.) 10 Waterloo Mansions, Museum, Bombay 400001.

Gauba Consultants (Pvt.) Ltd. (T.E.I.M.) 507 Kakad Chambers, 132 Dr. A. Besant Rd., Bombay 400018.

Kirloskar Consultants Ltd., (I.T.M.) 917/19A Shivajinagar, Ferguson College Rd., Pune 411004.

Modern Management Counsel, (M.T.), Court Chambers, New Marine Lines, Bombay 400020.

Personnel and Productivity Services, (M) 148, M. Gandhi Rd., Bombay 400001.

P. K. Sathe, (M), 11-12 Ram Kunj, 366 Cadell Rd., Bombay 400028.

Mysore

Dr. H. N. Nanjundiah, (M) "Sumana", 19, Mahant Layout, Bangalore 560019.

Management & Industrial Consultants Pvt. Ltd., 57, 17th Cross, Malleswaram, Bangalore 560003.

New Delhi

Mahesh Chandra, (M), 50 Anandlok Colony, New Delhi 110049.

MUSEUMS IN INDIA

Andhra Pradesh

Andhra Kesari Yuvajana Samiti Museum (Reg.), Rajamundry 533102. East Godavari Dist. (Paintings and Photographs).

Andhra Medical College Museum, Dept. of Anatomy, Andhra Medical College, Visakhapatnam 530001. (Anthropology & Anatomy).

Archaeological Museum, Amravati, Guntur 522001. (Stupa slabs, Coping pieces and cross-bars, Inscriptions etc.).

Archaeological Museum, Kondapur. (Architectural fragments of Stupa slabs, Sculptures etc.).

Archaeological Museum, Nagarjunakonda. (Satavahana period antiquities consisting of Stone Sculptures, Pottery, Terracottas, Beads, Bangles, Coins, Iron objects etc.).

Salarjung Museum, Hyderabad 500002. (Paintings (Western Indian), Textiles, Porcelain, Jade, Carpets, Manuscripts, Antique furniture, Ivory, Glass, Clocks, Bronze, Silver, Bidriware & Toys in the Children's Section).

State Archaeological Museum, Public Gardens, Hyderabad 500004. (Archaeology, Stone sculptures, Coins, Paintings & Costumes).

Arunachal Pradesh

Central Museum, Lachmiera, Shillong 793001. (Archaeology, Anthropology, Ethnology, Costumes).

Assam

Assam State Museum, Gauhati 781001. (Archaeology, Stone sculptures, Inscriptions, Paintings, Costumes, Ethnology).

Gauhati Medical College, Gauhati 781005. (Science, Medical, Anatomy).

Museum of Animal Husbandry and Veterinary Science, Assam Veterinary College, Gauhati 781022. (Veterinary Science).

Sibsagar College Museum, Sibsagar College, P.O. Joysagar Dist., Sibsagar 785640. (Archaeology, Costume, Ethnology, Science).

Bihar

Archaeological Museum, Bodhgaya, Gaya Dist. (Archaeology — Stone and bronze sculptures etc.).

Archaeological Museum, Nalanda, Patna Dist. (Archaeology — Stone and bronze sculptures).

Bihar Gandhi Smarak Sangrahalaya, North West Gandhi Ground, Patna 800001. (Personalia Museum of Gandhiji).

Bihar Tribal Welfare Research Institute, Morabadi Rd., Ranchi 834008. (Ethnology — the main purpose is to preserve material culture of the tribes of this state).

Gaya Museum, Gaya 823001. (Archaeology, Paintings, Costumes, Ethnology).

Patna Museum, Patna-Gaya Rd., Buddha Marg, Patna 800001. (Archaeology — Stone and bronze sculptures, Coins, Inscriptions, Art, Arms & Weapons, Ethnology, Tibetan & Nepalese).

State Chandradhari Museum. Darbhanga. (Multi-purpose).

Chandigarh

Government Museum & Art Gallery, Sector 10-C, Chandigarh 160017. (Miniature paintings, Sculptures including Gandhara sculptures and Modern art).

Delhi

Anthropology Department Museum, University of Delhi, Delhi 110007. (Anthropology — Cultural and Physical).

Archaeological Museum, Red Fort, Delhi 110006. (Historical Collections of Mughal period — Costumes, Arms, Coins, Jades, Astronomical objects and Miniature paintings).

Bhartiya Adim Jati Sevak Sangh Museum, Dr. Ambedkar Rd., New Delhi 110001. (Costumes and handicrafts of tribals).

Crafts Museum, Thapar House, 124, Janpath, New Delhi 110001. (Archaeology, Paintings, Costumes, Ethnology, Anthropology, and Crafts).

Gandhi Memorial Museum & Library, Rajghat, New Delhi 110001. (Photographs, Relics, Paintings, Sculptures of Gandhiji, Library & Archives).

International Dolls Museum, Nehru House, Bahadurshah Zafar Marg, New Delhi 110001. (Dolls from all over the world).

National Childrens Museum, Bal Bhavan, Kotla Rd., New Delhi 110001. (Dolls, Paintings, Photographs, etc.).

National Gallery of Modern Art, Jaipur House, New Delhi 110011. (Contemporary Paintings (from 1857 to date) Sculptures & Graphic Arts. Also paintings of Ravindranath Tagore and Amrita Shergil).

National Museum, Janpath, New Delhi 110011. (Pre-history, Proto-history, Sculptures, Bronzes, Copper plates, Coins, Miniature paintings, Arms, Arts, Pre-Columbian arts, Anthropology and Central Asian collections).

National Philatelic Museum, Dak Tar Bhavan, Sardar Square, Parliament St., New Delhi 110001. (Philately).

Nehru Memorial Museum, Teen Murti Marg, New Delhi 110001. (Personal belongings of Nehru & Library).

Tibet House Museum, 16, Jor Bagh, New Delhi 110001. (Tibetan sculptures, Paintings (Thankas), Ritual objects, Carpets etc.).

Gujarat

Gandhi Smriti Museums, Gandhi Smriti, Bhavnagar 364001. (There are four museums under the care of Gandhi Smriti, all housed in one building. (i) Arts and Crafts Museum. Picturesque embroidery and Bead work of Saurashtra. Costumes, Ornaments, Wood Work, Clay objects, Antiquities from Valabin, Coins and Fossils from Piram island. (*ii*) Barton Museum. Fossils, Archaeology, Sculpture, Coins, Stones, Inscriptions, Copper plates, Manuscripts, Copies of Shilrot Wall paintings, Musical instruments, Brass utensils, Old locks, Arms, Artistic nutcrackers. (*iii*) Children's Museum. Relief map of Bhavnagar, Aquarium, Toys, Philatelic section, stuffed birds, reptiles and amphibians. (*iv*) Gandhi Museum. Photographs, collections of documents and personal relics, audio-visual material on Gandhiji).

Darbar Hall Museum, Shilekhana Sakkar Bagh, Junagadh 362001. (Archaeology, Paintings, and Costumes).

Gujarat Museum Society, Culture Centre, Kocharab, Ahmedabad 380006. (Archaeology, Anthropology, Ethnology, Costumes, Paintings including N. C. Mehta Collection of miniatures, Science etc.).

Health Museum, Sayaji Bagh, Vadodara 390001. (Archaeology, Paintings, Costumes etc.).

Lady Wilson Museum, Dharampur, Valsad Dist. 396001. (Anthropology, Industrial Art and Natural History).

Museum & Picture Gallery, Sayaji Park, Vadodara 390005. (Indian Archaeology — Prehistoric, Proto-historic and Historic; Indian Art — Ancient, medieval, modern; Numismatic, Paintings, Asiatic and Egyptian collection, Greek, Roman, European Civilizations and Art, Ethnology, Geology, Zoology etc.).

Sardar V. Patel Museum, Sonifalia, Surat 395001. (Archaeology, Paintings & Costumes).

Shri Girdharbhai Children's Museum, Amreli Dist. 364601. (All round development of children).

Tribal Research & Training Institute, Gujarat Vidyapith, Ahmedabad 380014. (Anthropology).

Watson Museum, Jubilee Bagh, Rajkot 360001. (Archaeology, Anthropology, Costumes, Ethnology & Science).

Haryana

Haryana Prantiya Puratatva Sangrahalaya, P. O. Gurukul Jhajjar, Rohtak Dist. 124001. (Archaeology, Paintings, Costumes, Anthropology, Science, Geology, Numismatics, Sculpture, Craft and Manuscripts).

Himachal Pradesh

Bhuri Singh Museum, Chamba. (Archaeology, Anthropology, Costumes, Ethnology, Miniature Paintings).

Jammu & Kashmir

S.P.S. Museum, Lalmandi, Srinagar 190001. (Archaeology, Paintings, Costumes, Anthropology, Arts and Crafts, Minerals, Numismatics and Natural History).

Dogra Art Gallery, Jammu 180001. (Miniature paintings, specially Pahari).

Kerala

Art Museum, Trivandrum 695001. (Sculptures — Metal, Wood, Other Wood Carving, Ivory work, Collection of Lamps and Musical instruments, Numismatics, Handicrafts and Paintings).

Natural History Museum. Dept. of Museums and Zoos. Trivandrum 695001. (Geology, Ethnology and Science).

State Museum, Trichur 680001. (Arts and Crafts, Woodcarvings, Natural History, Geology etc.).

Madhya Pradesh

Archaeological Museum, Khajuraho. (Archaeology — Stone sculptures from Khajuraho and vicinity).

Archaeological Museum, Sanchi, Raisen Dist. (Stone sculptures, Terracottas and other local finds).

Central Museum, Bombay Agra Rd., Indore 452001. (Archaeology and Paintings).

Central Archaeological Museum, Gujari Mahal, Fort, Gwalior 474001. (Stone sculptures, Terracottas, Bronzes and Miniature paintings).

District Archaeological Museum, Vidisha 464001. (Archaeology, Terracotta objects, Coins, Educational set of Harrappan Art, etc.).

Dhar District Museum, 12 Ootavad Darwaja, Dhar. (Mainly Archaeological).

District Museum Shivpuri, Ban Ganga Rd., Shivpuri. (30 stone images (Jain Tirthankars), 20 Harappan culture articles on exhibition. Rest in reserve collections).

Forest School Shivpuri, Shivpuri. (Forest products and Forestry, Ethonology).

Mahant Ghasi Dass Memorial Museum, Raipur 492001. (Archaeology, Paintings, Costumes, Anthropology and Natural History, Art and Crafts).

State Museum, Dhubela, Chhatarpur. (Archaeology, Paintings, Costumes).

Tulsi Sangrahalaya, Ramban, Satna 485001. (Local Archaeological finds and stone sculptures).

Maharashtra

Central Museum, Nagpur 440001. (Archaeology, Anthropology, Paintings, Geology, Natural History).

Deccan College Museum, Poona 411001. (Excavated materials from Nevasa, Jorwe, Nasik etc. and Maratha period objects).

Heras Institute of Indian History & Culture, St. Xavier's College, Bombay 400001. (Archaeology, Paintings, Sculpture, Iconography, Manuscripts & Rare books).

History Museum, Ahmednagar College, Ahmednagar 414001. (Archaeology, Paintings).

Magan Sangrahalaya, Maganwadi. P. O. Wardha 442001. (Only for Khadi & Village Industries).

Mahatma Phule Vastu Sangrahalaya, Ghole Rd., Poona 411001. (Archaeology, Agriculture, Anthropology, Costumes, Ethnology, Forestry, Industry, Paintings & Science).

Mani Bhavan Sangrahalaya, 19, Laburnum Rd., Gamdevi, Bombay 400007. (Personalia Museum of Gandhiji).

Prince of Wales Museum of Western India, Bombay 400001. (Archaeology, Art, Paintings, Costumes, Bronzes, Ivories, Porcelains, Jade, Natural History).

Raja Kelkar Museum, 1378 Shukrawarpeth, Natu Bagh, Poona 411001. (Archaeology, Anthropology, Ethnology, Costumes, Paintings).

Shri Bhavani Museum & Library, Aundh (Satara) Tal. Khatav. Satara Dist. 415001. (Archaeology, Paintings, Stone, Bronze statues, Sandalwood carvings and few textiles and a well-equipped Library).

Manipur

Manipur State Museum, Pologround, Imphal. (Anthropology, Archaeology, Ethnology, Costumes, Paintings. Zoology & Geology).

Mysore

Archaeological Museum, Bijapur 586101. Stone sculptures, Inscriptions, Manuscripts, Arm and Weapons, Chinaware, Wood-carvings, Carpets etc.).

Archaeological Museum, Halebid. (Stone sculptures, Architectural pieces of Hoysala period).

Archaeological Museum, Hampi. (Sculptures and architectural pieces belonging to the Vijayanagar period).

Museum of Art & Archaeology, Kannada Research Institute, Karnatak University, Dharwar 580003. (Archaeology, Epigraphy, Manuscripts, Sculptures, Numismatics, Paintings).

Visvesvaraya Industrial & Technological Museum, Kasturba Rd., Bangalore 560001. (History of Science & Technology, the latest developments by working models and exhibits).

Mysore Government Museum, Kasturba Rd., Bangalore 560001. (Multi-purpose).

Orissa

Archaeological Museum, Konarak. Puri Dist. 752001. (Stone sculptures).

Orissa State Museum, Bhubaneshwar 751006. (Archaeology, Paintings, Costumes, Ethnology, Anthropology, Science, Manuscripts).

Punjab

State Museum, Patiala 147001. (Archaeology, Anthropology, Costumes, Paintings, Ethnology, Geology and Science).

Rajasthan

Archaeological Museum, Ahar. (Excavated material from the Chalcolithic site (1800 B.C. onwards) of Ahar, Sculptures and Bronzes).

Archæological Museum, Amber. (Sculptures and excavated material from Bairat, Sambhar, Rairh, Nagar etc., in Jaipur region).

Archaeological Museum, Jhalawar 326001. Sculptures, Inscriptions, Coins, Miniature paintings and Manuscripts).

Central Museum, Ramniwas Gardens, Jaipur 302004. Multipurpose Cultural Museum. (Sculptures, Miniature paintings, Ethnology, Anthropology, Educational etc.).

Central Museum, Institute of Technology & Science, Pilani. (Paintings, Science & Technology).

Ganga Golden Jubilee Museum, Bikaner 334001. (Sculptures, Terracottas, Miniature paintings, Textiles, Arms and Decorative arts).

Government Museum, Alwar 301001. (Sculptures, Inscriptions, Arms, Miniature paintings and Decorative arts).

Museum of Saraswati Bhandar, Garh, Kotah 324001. (Paintings, Costumes, Arms & Manuscripts).

Rajputana Museum, Ajmer 305001. (Sculptures, Inscriptions, Coins, Paintings).

Rana Pratap Museum, Near Pichhola lake, Udaipur 313001. (Sculptures, Inscriptions, Coins, Paintings and local crafts).

Sardar Museum, Jodhpur 342001. (Paintings, Handicrafts, Textiles, Natural History).

State Museum, Bharatpur 321001. (Excavated material from Noh (1000 B.C. and onward), Sculptures, Inscriptions, Coins and Arms).

State Museum, Mandore, Jodhpur 342001. (Science, Natural History, Paintings & Gallery.)

State Museum, Mount Abu, Sirohi Dist. 307001. (Science, Paintings and Handicrafts).

The Maharaja of Jaipur Museum, City Palace, Jaipur 302002. (Miniature Paintings, Costumes, Arms & Armours, Textiles, Mughal carpets etc.).

Tamil Nadu

Fort St. George Museum, Madras 600001. (Paintings, Prints, Coins. Medals, Textiles. Porcelain Manuscripts etc. of early Indo-British history).

Gandhi Smarak Sangrahalaya, Tamukkam, Madurai 625013. Personalia Museum on Gandhiji *e.g.* Photographs, Relics, Manuscripts & Library).

Government Museum, T. S. No. 6169, Big St., Tirugokarnam, Puddukkottai-2, Trichy District 620001. (Archaeology, Paintings, Costumes, Ethnology Anthropology, Natural Sciences like Geology, Zoology and Botany).

Southern Forest Rangers College & Research Centre, P.O. R. S. Puram, Coimbatore 641002 (S. Rly). Forest Museum.

The Government Museum & The National Art Gallery, Egmore, Madras 600008. (Archaeology Stone and Bronze Sculptures, Art, Anthropology, Numismatics, Zoology, Botany, Geology, Children's section & Philately).

Tipu Sultan Museum, Summer Palace, Dariya-Doulat-Bagh, Seringapatam. (Objects connected with the history of Haidar Ali and Tipu Sultan and their contemporary history).

Uttar Pradesh

Allahabad Museum, Alfred Park, Allahabad 211001. (Stone and Bronze sculptures, Terracottas, Miniature paintings, Modern Indian paintings and Gifts of Pandit Jawaharlal Nehru).

Archaeological Museum, Dampier Park, Mathura 281001. (Stone sculptures (particularly of Kushana and Gupta periods of Mathura school), Terracottas, Bronze etc.).

Archaeological Museum, Sarnath, Varanasi 221001. (Stone and Bronze sculptures, Seals, Beads, Toys, Terracottas and Pottery).

Bharat Kala Bhavan, Benaras Hindu University, Varanasi 221005. (Gandhi, Philatelic, Architecture, Bronze, glassware, Arms, Roorich paintings, Jades, Jems, Ornaments, Modern art, Textiles, Coins, Miniature paintings, Terracottas, Sculptures, Nepal & Tibet Sections).

Maharaja Banaras Museum, Fort Ram Nagar, Varanasi 221001. (Stone sculptures, Textiles (Banaras brocades etc.), Arms, Manuscripts, Paintings, Decorative arts, Palanquins and Howdas etc.).

Motilal Nehru Bal Sangrahalaya, Motilal Nehru Marg, Charbagh, Lucknow 226001. (Exhibition and display according to the needs of the children).

Museum of Science & Culture, General Education Centre, Aligarh Muslim University, Aligarh 202001. (Science & Culture).

State Museum, Banarasibagh, Lucknow 226001. (Archaeology, Stone sculptures, Bronzes, Terracottas, Inscriptions, Anthropology, Paintings, Costumes, Ethnology & Natural History).

West Bengal

Asutosh Museum of Indian Art. Centenary Bldg., Univ. of Calcutta, Calcutta 700012. (Archaeology, Art, Bengal Folk-Art, Paintings & Textiles).

Asiatic Society of Bengal Museum, 1, Park St., Calcutta 700016. (Western paintings, Coins, Miniature paintings (Pala, Arabic, Persian etc.), Copper plates and Manuscripts).

Birla Academy of Art & Culture, 108-109, Southern Ave., Calcutta 700029. (Archaeology, Paintings, Costumes, Anthropology).

Birla Industrial & Technological Museum, 19A, Gurusaday Rd., Calcutta 700019. (Science).

Birla Planetarium & Astronomical Research Centre, 96, Chowranghee, Calcutta 700016. (Educational activities, Research problems and popularisation of Astronomy and allied fields).

Cultural Research Institute Museum, Scheduled Castes & Tribes Welfare Deptt. New Secretariat Bldgs., Block-B, 1, Hastings St., Calcutta 700001. (Ethnology & Anthropology).

Gandhi Smarak Sangrahalaya 14, Riverside Rd. Barrackpore, 24 Parganas, Relics, Replicas, Manuscripts, Photographs & Library).

Government Industrial and Commercial Museum, 45, Ganesh Chandra Ave., Calcutta 700013. (Industry and Commerce including folk art and handicrafts).

Indian Museum, 27, Jawaharlal Nehru Rd., Calcutta 700013. (Art, Bharhut, Gandhara and Pala Sculptures etc. Archaeology, Anthropology, Geology and Economic Botany).

Kala Bhavan, Visva Bharati University, Shantiniketan. (Fine Arts and Handicrafts.)

Rabindra Sadan, Tagore Memorial Museum, Shantiniketan. (Personalia Museum : Materials connected with the life and works of Rabindranath Tagore mainly consisting of Manuscripts, Paintings, Photographs, Voice records, Costumes, Books, Journals etc.).

State Archaeological Gallery, 33, Chittaranjan Ave., Calcutta 700013. (Pre- and Proto-historic excavated material, Terracottas, Pala Stone Sculptures, Bronzes, Wood-carvings, Textiles, etc.).

Victoria Memorial 1, Queensway, Calcutta 700016. (Museum of Modern Indian History ; Historical paintings (Oil paintings, water colour, Late Mughal paintings etc.) Statues of Historical personages, Archival objects, Manuscripts, Arms & Armours).

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Vijay Laxmi Transport Corpn., 3/5, Garibdas St., Vadgadi, Bombay 400003.
Vora Transport Co., 188, K. Syed St., Bombay 400003.

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Bombay Delhi Goods Tr. Co., 398/400, Katha Bazar, Bombay 400009.
Bombay General Freight Carriers Pvt. Ltd., Ashok Chambers, Broach St., Bombay 400009.
Bombay Punjab Road Carriers, 193, Chakla St., Bombay 400003.
Caravan Tr. Organisation, Shanti Bldg., Nawroji Hill Rd., No. 4, Dongri, Bombay 400009.
Delhi Kanpur Gondia Tr. Co., 56, Dontad St., Masjid Bunder Rd., Bombay 400009.
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Green Roadways (Regd.) of Rajasthan, 82, Chakla St., Bombay 400003.
Jaipur Golden Transport Co., Pvt. Ltd., 30, Carnac Rd., Bombay 400003.
M. K. Mehendale Transport Pvt. Ltd., 20, Gordhandas Mansion, Dr. Ambedkar Rd., Opp. Central Rly., Institute, Parel, Bombay 400012.
Montgomery Co-Op. Goods Transport Society Ltd., 209, Chakla St., Bombay 400003.
Nitco Roadways Pvt. Ltd., 53, Issaji St., Bombay 400003.
Okara Trade Parcel Carriers, 141/47, Chakla St., Bombay 400003.
Orient Roadways, K. Lekhraj Bldg., 20 Carnac Rd., Bombay 400003.
Roshan Transport & Forwarding Agency, 65 Issaji St., Bombay 400003.
Sodhi Road Transport Corpn., 85, Issaji St., Bombay 400003.
Super Roadways, 26B/20, Dhobi Galli, Bombay 400003.

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Bombay Okara Carriers, Karimji Bldg., 19, Bhandari St., Bombay 400003.
Delhi U.P. M.P. Transport Co., 250, Nagdevi St., Bombay 400003.
Delux Roadways (Regd.), 52, Sheriff Devji St., Bombay 400003.
Green Transport Co., 37, Old Bengali Pura St., Bombay 400003.
Hindustan Tr. Corpn., 128-A, Nandlal Jani Rd., Eastern Chambers, Poona St., Bombay 400009.
Jailaxmi Road Services Pvt. Ltd., 96, P. D'Mello Rd., Bombay 400009.
Kanpur Bombay Transport Co., 36, Khadak St., Masjid Bunder Rd., Bombay 400003.
New Bharat Motor Transport Co., 80F, Mohamedali Rd., Bombay 400003.
New Howrah Transport Co., A/3, Sugar Market Bldg., Ahmedabad Street, Bombay 400009.
New Kashmir & Oriental Transport Pvt. Ltd., 62, Dontad St., Bombay 400009.
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New Suraj Transport Co. Pvt., Ltd., 40, Carnac Rd., Bombay 400003.
Northern Carriers Pvt. Ltd., 114, Chakla St., Bombay 400003.
Northern India Goods Transport Co., Pvt. Ltd., 176/178, Chakla St., Bombay 400003.
Sardar Transport Co., 159, Dongri St., Bombay 400009.
Shanti Roadways, 15, Dontad St., Bombay 400009.

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Andhra Goods Carriers, 17, Chakla St., Bombay 400003.
Bombay Andhra Transport Co., 113, Bhandari St., Bombay 400003.
C. Narshi Roadways, 107, Tambakanta, Bombay 400003.
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Phone: 32603.
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Phones: 27302, 24401.
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Pier Rd., Tellicherry-1.
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Delux Roadlines, 70/72, Garibdas St., Vadgadi, Bombay 400003.

Dinesh Transport Service, 1/2, Wadvakar Bldg., Gokhale Rd., Thana.

Express Road Transport Pvt. Ltd., 100, Bhandari St., Bombay 400003.

Famous Transport Co., 15, Dontad St., Khadak, Bombay 400009.

Ganesh Transport Co., 135, Samuel St., Khoja Gali, Bombay 400009.

Indian Transport Corpn., Bhagubhai Chambers, 363, Katha Bazar, Bombay 400009.

Interstate Transports Pvt. Ltd., 12/14, Dontad St., Bombay 400009.

Interways Transport, 161, Zakaria Masjid Street, Bombay 400009.

Jai Hind Roadways, 324A, I. Rahimtulla Rd., Bombay 400003.

Jai Mahavir Transport Agency, 104/108, Patva Chambers, Clive St., Dana Bunder, Bombay 400009.

Kale's Transport Service, Steel Chambers, Broach St., Bombay 400009.

Karnatak Maharashtra Transport Co., 206, K. Syed St., Bombay 400003.

Kerala Transport Co., Loha Bhavan, P. D'Mello Rd., Bombay 400009.

Kirti Transport Pvt. Ltd., 91, Memonwada Rd., Bombay 400003.

Laxmi Roadlines, 216, New Anant Bhuvan, 257, N. Natha St., Bombay 400009.

Maha Transport Co., Goawala Bldg., 73, Janjikar St., Bombay 400003.

Mujawar & Co., Shroff Bhuvan, P. D'Mello Rd., Bombay 400009.

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Nutan Gujarat Transport Co., 364/66, Katha Bazar, Bombay 400009.

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Prakash Roadlines Pvt. Ltd., Eldee Chambers, 3, Broach St., Bombay 400009.

Radiant Kerala Roadways, Ebrahim Manor, 110, S.V. Patel Rd., Bombay 400009.

Rajkamal Transport, 19, Dhobi St., Bombay 400003.

Road Carriers Corpn., 98/100, V. V. Chandan St., Bombay 400003.

Sainath Traders, 25/26, Patwa Chambers, Clive St., Dana Bunder, Bombay 400009.

Sainath Transport Co., 22, Issaji St., Old Bardan Lane, Bombay 400003.

Sholapur Goods Transport, 138, K. Syed St., Bombay 400003.

Shree Gurudev Transport Co., 459, M. R. Rokade St., Mandvi-Koliwada, Bombay 400009.

Shree Laxmi Transport Co., 85, Issaji St., Bombay 400003.

Shree Mahadeswara Lorry Service, Al-Karim Manzil, Flat No. 4, Palton Rd., Bombay 400001.

Shree Sadguru Prasanna Transport Service, 102, Coronation Bldg., D. Phalke Rd., Dadar, Bombay 400014.

South Freight Carriers Pvt. Ltd., Ashok Chamber, Broach St., Bombay 400009.

Southern India Transport Service, 210, Himalaya House, Palton Rd., Bombay 400001.

Sri Palaniappa Transports, Ashok Chambers, Broach St., Dana Bunder, Bombay 400009.

United Forwarding, Clearing & Transport Service, 47, Vithaldas Rd., Bombay 400002.

United Stores, 31, Old Bengalipura St., Bombay 400003.

United Transport Co., 80/84, N. Jani Rd., Bombay 400009.

West Coast Roadways, Barket Manzil, N. M. Joshi Marg, Byculla, Bombay 400027.

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Ashoke Transport Organisation, 80/84, N. Jani Rd., Bombay 400009.

Assam Bengal Carriers, 92, S. Devji St., Bombay 400003.

Assam Travel Pvt. Ltd., 33, Kolsa St., Pydhonie, Bombay 400003.

Carryco, Municipal Bldg. No. 4, S. Siddiq Rd., Carnac Bridge, Bombay 400001.

Cromelite Tr. Corpn., 75/77, Chakla St., Bombay 400003.

Dooars Transport, 39, Chakla St., Bombay 400003.

Eastern Express Roadways, 56, R. Maharaj St., Bombay 400003.

Indra Motors Pvt. Ltd., 22, Russel St., Dana Bunder, Bombay 400009.

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Lucky Bharat Garage Pvt. Ltd., 64, Janjikar St., Bombay 400003.

Maharashtra Roadlines Co. Pvt. Ltd., 8/10, Ahmedabad St., Bombay 400009.

National Roadways, Steel Chambers, Broach St., Bombay 400009.

National Roadways (Regd.,), 112-B, K. Naik Rd., Bombay 400009.

Nepal Carriers, 58-B, Steel Chambers, Broach St., Bombay 400009.

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Road Bird Pvt. Ltd., 76-80/3, Masjid Siding Rd., Bombay 400009.

Savani Transport Pvt. Ltd., Kasam Chambers, 163, P. D'Mello Rd., Bombay 400001.

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All India Tr. Carriers (Regd.) 31, Broach St., Bombay 400009.

Associated Traders & Engrs. Pvt. Ltd., Eldee Chambers, Broach St., D'Mello Rd., Bombay 400009.

Economic Transport Orgn., Economic House, 1st Flank Rd., Chinch Bunder Rd., Bombay 400009.

Indian Roadways Corpn., Prestige Chambers, 127-B, Kalyan St., Bombay 400009.

International Express, 28, Eastern Chambers, 128A, Argyle Rd., Dana Bunder, Bombay 400009.

Jayco Roadlines, 47-48, Bhandari St., Bombay 400009.

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Munshi & Co., 84-C, Mohammedali Rd., Bombay 400003.

New Premier Transport Service, S. Siddiq Rd., Bombay 400009.

Pal Goods Transport Co., 226, Bhandari St., Bombay 400003.

Patel Roadways Pvt. Ltd., 100, Chakla St., Bombay 400003.

Rekhi Roadlines Pvt. Ltd., 40-42, Shroff Bhuvan, 159, P. D'Mello Rd., Bombay 400001.

Road Transport Corpn., 44, Chakla St., Bombay 400003.

Shakeel Transport Service, 40/42, Ghagra Bldg., Tank Bunder, Mazgaon, Bombay 400010.

South Eastern Carriers, 19, Bhandari St., Bombay 400009.

South Eastern Roadways, Norruddin Chambers, 87-B, Broach St., Bombay 400009.

Tatanagar Transport Corpn., Steel Chambers, Broach St., Bombay 400009.

Transport Corpn. of India Pvt. Ltd., Transport House, 128-B, Poona St., Bombay 400009.

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List of some Travel Agencies in major cities approved by the Government of India with their telegraphic addresses within inverted commas:

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American Express International, Travel Division, 119, J. Tata Rd., Churchgate Recl., Bombay 400020 (Head Qrts.): "AMEXCO".

Asiatic Travel Service, 12, Murzban Rd., Bombay 400001 (Head Qrts): "AIRASIA".

Balmer Lawrie & Co. Ltd., 5, Graham Rd., Ballard Estate, Bombay 400001, (Branch): "BALMER".

Bathija Travel Pvt. Ltd., New Silk Bazar, 491 Kalbadevi Rd., Bombay 400002 (Head Qrts.): "TRAVELRITIA"

Blue Skies Pvt. Ltd., 28 K. Dubash Marg, Bombay 400001 (Head Qrts): "BLUEHORIZON".

Careways (I) Pvt. Ltd., Vashani Chambers, New Marine Lines, Bombay, (Branch).

Cox & Kings (Agents) Ltd., Lloyds Bank Bldg., Dr. D. Naoroji Rd., Bombay 400001, (Head Qrts.): "COXSHIP".

Everett Travel Service, Fort House Annexe, 221, Dr. D. Naoroji Rd., Bombay 400001, (Branch): "TRAVERETT".

Freight Carriers Pvt. Ltd., 43 Tamarind Lane, Bombay 400001, (Head Qrts): "QUICKFREIT".

Hind Musafir Agency, Khorshed Bldg., Sir P. Mehta Rd., Bombay 400001, (Head Qrts.): "PRAVASI".

Indtravels, Neville House, Nicol Rd., Ballard Estate, Bombay 400001, (Head Qrts.): "AIRFREIGHT".

Mackinnons Travel Service, 4, S. Vallabhdas Marg, Bombay 400001, (Head Qrts.): "MACKINNONS".

Mercury Travels (India) Pvt. Ltd., 70 Forbes St., Fort, Bombay 400001, (Branch): "MERCTRAVEL".

Orient Express Co. Pvt., Ltd., UCO Bank Bldg., 359, Dr. D. Naoroji Rd., Bombay 400001, (Branch): "OREXPRESCO".

Patel Volkart Travel Service, 16, Graham Rd., Ballard Estate, Bombay 400001, (Head Qrts.): "ENGADINE".

Sanghi International Travels, 39-A, Hughes Rd., Bombay 400007, (Head Qrts.): "SANGHICAR".

Sita World Travel (India), Pvt. Ltd., Nataraj Hotel, N. Subash Rd., Bombay 400001, "SITATRAVEL".

SOTC Travel & Tours, SOTC Naoroji House, 44 Mint Rd., Bombay 400001, (Head Qrts.): "SINDORTOUR".

TCI, Chander Mukhi, Nariman Point, Bombay 400020, (Head Qrts.).

Thos. Cook & Son (Continental Overseas) Ltd., Cooks Bldg., Dr. D. Naoroji Rd., Bombay, (Head Qrts.): "COUPON".

Trade-Wings (Pvt.) Ltd., 30, Rampart Rd., Fort, Bombay 400001, (Head Qrts.): "TRAVEL".

Travel Corpn. (India) Pvt. Ltd., 12, Rampart Rd., Fort, Bombay 400001, (Branch): "LEMUIR".

Travel Corpn. (I) Pvt. Ltd., 10, V. Nariman Rd., Bombay 400001, (Branch): "JUSTITIA".

Vensimal Bassarmal & Bros., 521, Kalbadevi Rd., Bombay 400002, (Head Qrts.): "VENSIMAL".

Calcutta

American Express Co. Inc., 21, Old Court House St., Calcutta, (Branch): "AMEXCO".

Balmer Lawrie & Co. Ltd., 21, N. Subash Rd., Calcutta 700001, (Head Qrts.): "BALMER".

Everett Travel Service, 4, Govt. Place (N), Calcutta 700001, (Head Qrts.): "TRAVERETT".

Gladstone Lyall & Co. Ltd., 4, Fairlie Place, Calcutta 400001, (Head Qrts.): "GLADSWYLL".

James Waven & Co. (I) Ltd., 31, Chowringhee Rd., Calcutta 700016, (Head Qrts.): "PLANTERS".

Indian Air Travels Ltd., 28, Chittaranjan Ave., Calcutta 700012, (Head Qrts.): "SKYMASTER".

Mackinnon Mackenzie & Co. Pvt. Ltd., 16, Strand Rd., Calcutta 700001, (Branch): "MACKINNONS".

Mercury Travels (India) Pvt. Ltd., Oberoi Grand Hotel, Calcutta 700013, (Branch): "MERCTRAVEL".

Orchid Travels Pvt. Ltd., 56, Chowringhee Rd., Calcutta 700016, (Head Qrts.): "TRAVORCHID".

Orient Express Co. Pvt. Ltd., 1 & 2, Old Court House Corner, Calcutta, (Branch): "OREXPRESCO".

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Trade Wings (Calcutta) Pvt. Ltd., Spencer's Bldgs., 32, Chowringhee Rd., Calcutta 700016, (Head Qrts.): " TRAVELLING ".

Travel Corpn. (India) Pvt. Ltd., 19B, Shakespeare Sarani, Calcutta 700017, (Branch): " TRAVELJENA ".

Travel Corpn. (India) Pvt. Ltd., 46-C, Jawaharlal Nehru Rd., Calcutta 700016, (Branch): " TRAVELAIDS ".

Travel Corpn. (I) Pvt. Ltd., 6, Lyons Range, Calcutta 700001, (Branch): " ENJAYTOURS ".

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Asian Travels (India) Pvt. Ltd., 1, Patullos Rd., Mount Rd., Madras 600002, (Head Qrts.): " WORLDTRAVEL ".

Bharat Travel Service Pvt. Ltd., 314/315, L. Chetty St., Madras 600001, (Head Qrts.): " EXCURSION ".

Careways (I) Pvt. Ltd., Kannammar Bldgs., 122, Mount Rd., Madras 600006, (Branch): " BONVOYAGE ".

Mercury Travels (India) Pvt. Ltd., Mohan Mansion, 38C Mount Rd., Madras 600006, (Branch): " MERCTRAVEL ".

Orient Express Co. Pvt. Ltd., 35 Mount Rd., Madras, (Branch): " OREXPRESCO ".

Ram Mohan & Co. Pvt. Ltd., 362, N. Subash Rd., Madras, (Head Qrts.): " GACANPAC ".

Sita World Travel (I) Pvt. Ltd., Fagun Mansions, Commander-in-Chief Rd., Egmore, Madras 600008, (Branch): " SITATRAVEL ".

Sherif Travel Pvt. Ltd., Second Line Beach, Madras 600001.

Thos. Cook & Son (Continental & Overseas), 4/5, First Line Beach, Madras 600001: " COUPON ".

Trade-Wings (P) Ltd., Purushottam Bldgs., 193, Mount Rd., Madras, (Branch): " TRAVELAGES ".

Travel Corpn. (I) Pvt. Ltd., " Fagun Mansion ", 19, Commander-in-Chief Rd., Madras 600008, (Branch): " TRAVELLING ".

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Ambassador Travels Pvt. Ltd., 60 Regal Bldg., New Delhi, (Head Qrts.): " AMBTRAVEL ".

American Express International, Travel Division, Wenger House, Connaught Place, New Delhi 110001, (Branch): " AMEXCO ".

Asiatic Travel Service, 1/90, Connaught Place, Opp: Rivoli Cinema, New Delhi 110001, (Branch): " AIRASIA ".

Careways Pvt. Ltd., 103/104, Akash Deep, 26-A, Barakhamba Rd., New Delhi 110001, (Head Qrts.): " CAREWAYS".

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Govan Travels, E15, N.D.S.E., 11, New Delhi 110049, (Head Qrts.): " GOVANTOURS ".

Indian Air Travels Ltd., 10-Jain Mandir Rd., New Dehli 110001, (Branch): " CARAVELLE ".

Indtravels, Hotel Imperial, Janpath, New Delhi 110001, (Branch): " INDTRAVELS ".

Iyer & Son Pvt. Ltd., U.I. Life Bldg., F-Block, Connaught Place, New Delhi, (Head Qrts.): " TYARSON ".

Mackinnons Travel Service, Bank of Baroda Bldg., 16, Parliament St., New Delhi 110001, (Branch).

Mercury Travels, (India) Pvt. Ltd., Jeevan Tara Bldg., Parliament St., New Delhi 110001, (Branch): " MERCTRAVEL ".

Oriental Travels Pvt. Ltd., Marina Hotel, Connaught Circus, New Delhi.

Orient Express Co. Pvt. Ltd., 70, Janpath, New Delhi 110001, " OREXPRESCO ".

Saha & Rai Travels Pvt. Ltd., 9-A, Connaught Place, Central Rly, Middle Circle, New Delhi 110001, (Head Office):" SAHRAITRAV ".

Speedways International Travels, M-87, Connaught Circus, New Delhi, (Branch): " SPEEDWAYS ".

Sita World Travel (I) Pvt. Ltd., F12, Connaught Place, New Delhi 110001, (Head Qrts.): " SITATRAVEL ".

SUTC Travel & Tours, No. 6, Himalaya House, 23, K. Gandhi Marg, New Delhi 110001.

Travel Corpn. (I) Pvt. Ltd., Jeena House, 50, Hanuman Rd., Connaught Place, New Delhi 110001, (Branch): " TRAVELJENA ".

Trade-Wings (Pvt.) Ltd., 60, Janpath, New Delhi, (Branch) " TRAVIT ".

Travel Corpn. (I) Pvt. Ltd., C-35, Connaught Place, New Delhi 110001, (Branch): " TRAVELAIDS ".

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Hydro Carbide Drilling Co., 166, Salset Rd., Kalina, Santa Cruz East, Bombay 400029.

Jai Malhar International, Municipal Bldg., Block D/30, Agarwada, Sion, Bombay 400022.

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Bhojaraja, K8, Green Park Extn., New Delhi 110016.
Dalal, 93, B. Samachar St., Bombay 400001.
G. D. Tewari, F68, Green Park, New Delhi 110016.
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J. G. Bodhe, Dalal St., Bombay 400001.
K. R. Kalra, E95, Gr. Kailash, New Delhi 110048.
M. L. Sood, S60, Punch Sheel Park, New Delhi 110017.
Mathur, 7/9, Darya Ganj, New Delhi 110006.
N. K. Kothari, 129, Sunder Nagar, New Delhi 110003.
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ADARKAR, Vishnu Namdeo, G. D. Art (Ptg.), Life Fellow, Central Inst. of Art and Design, Lond. ("Honoris Causa"), 1947 ; I.S.A. Award (1962), Padma Shri (1965), J. P., (1966) ; Adviser, Ind. Design Centre, I.I.T. Bombay, since 1969. *b.* Aug. 23, 1908 ; *Educ. :* Sir J. J. School of Art, Bombay. Dy. Dir., Sir J. J. School of Art, 1939-40 and 1942-48 ; Supdt. and Head of the Dept. of Applied Art, Sir J. J. School of Art, 1948-58 ; Prof., Principal and Dean, Sir J. J. Inst. of Applied Art ; First Dir. of Art, Maharashtra State, 1965-68 ; Chmn. ; All India Board of Tech. Studies in Applied Art, Govt. of India ; Printing Tech. Cttee., since 1958 ; Ind. Design Cttee., 1965 ; etc.; Mem.: Philatelic Adv. Cttee., Govt. of India and the Gen. Council of the Lalit Kala Akademi, New Delhi, etc. *Publications : Art Education ; Industrial Design ; Design for Living. Address :* 'Adari', 2, Kalanagar, Bandra East, Bombay 400051.

AGARWALA, Shri Narayan, M.A., Ph.D. (Princeton) ; recipient of C. J. Wattumull Memorial Prize in Family Plng. for outstanding research in the field of family plng. in India, 1960. Dir., Intnl. Instt. of Population Studies, since 1967. *b.* Jan. 9, 1920 ; *Educ. :* B.A. and M.A., Allahabad Univ. ; M.A., and Ph.D., Princeton Univ.; Asstt. Prof. of Economics, Allahabad Univ., 1947-57 ; Fellow, Population Council, New York, 1955-57 ; Chief, Demographic Research Centre, Instt. of Economic Growth, Delhi 1957-67 ; Staff mem., Social Affairs Divn., ECAFE, Bangkok, 1963 ; Mem., Intnl. Union for the Scientific Study of Population, Academic Council, Senate and Syndicate, Bombay Univ., Senate of Indian Instt. of Tech. Powai, Demographic & Communication Action Research Cttee., Cttee. on Reproductive Biology & Fertility Control of I.C.M.R., New Delhi, etc., etc. *Publications :* Over 30 books and 200 original papers on demography, population problems, family plng. and economic affairs such as *Fertility Control through Contraception, India's Population—some Problems in Perspective Planning ; Attitude towards Family Planning in India ; A Demographic Study of Six Urbanising Villages,* etc. *Address:* International Institute for Population Studies, Govandi Station Road, Deonar, Bombay 400088.

AGERWALA, Prem Mahesh, M.B.E., F.I.T.E., F.I.E., Industrialist. *b.* Oct. 13, 1911, in Meerut ; *Educ.:* C.E. (Hons.) Roorkee. Joined Tatas on Jan. 1, 1965 after 33 years in Govt. service, retd. as Member, Telecommunications Operations, P. & T. Board ; Mg. Dir., Tata Hydro-Electric Power Supply Co. Ltd. ; Andhra Valley Power Supply Co. Ltd.; Tata Power Co. Ltd. ; Dir.: Tata Industries Pvt. Ltd.; Indian Hotels Co. Ltd.; Tata-Merlin & Gerin Ltd.; Exec. Cttee. Mem., Tata Consulting Engineers ; Dir.-in-charge ; Tata Consultancy Services ; Founder Member and Fellow, Institution of Tele-communication Engineers, India ; Fellow, Instt. of Engineers (India). *Address : Residence :* 11A, Meher Apartments, Altamount Rd., Bombay 400026 ; *Office :* Bombay House, Bruce St., Bombay 400001.

AHMED, Fakhruddin Ali, B.A. (Cantab.), Bar-at-Law, Minister for Agriculture, Govt. of India, since June 27, 1970 ; Mem., Cong. Wkg. Cttee. and All India Parly. Board, since 1964. *b.* May 13, 1905 ; *Educ. :* Govt. High School and St. Stephen Coll., Delhi ; History Tripos, Cambridge Univ., 1927 ; called to the Bar from the Inner Temple, London, 1928. Advocate, Punjab & Assam High Courts and Senior Advocate, Supreme Court of India ; mem. : Indian National Cong., since 1931 ; M.L.A., Assam, 1935-45, 1957 & 1962 ; M.P., Rajya Sabha, 1954-57 ; mem., Indian delegation to the U.N. Gen. Assembly, 1957 ; Min. for Fin., Assam State, 1958-66 ; Min. for Irrigation & Power, Govt. of India, 1966 ; Min. for Education, 1966-67 ; elected to the Lok Sabha from Barpeta Constituency (Assam), 1967 ; Min. for Ind. Devpt., Company Affairs and Wakfs, Govt. of India, 1967-70 & Deptt. of Internal Trade, 1969-70. *Address :* New Delhi.

AL-SAMARRAI, H.E. Dr. Abdullah Salloum, Ph.D. (His.), Ambassador of Iraq to India. *b.* 1932 ; *Educ. :* Anshans, Arab Republic of Egypt. Vice-Minister of Works & Social Affairs, Feb. '63 to Oct. '63 ; Prof., Univ. of Baghdad ; Minister of Information Aug. '68 to Dec. '69. *Address :* Embassy of Iraq, 33, Golf Links, New Delhi 110003.

ALAGIRISWAMI, Mr. Justice Alwar Naicker, First Class Honours in History, Economics & Politics, Univ. of Madras, 1932 ; B.L. Univ. of Madras, 1934, Judge, Supreme Court of India, since Oct. 17, 1972. *b.* Oct. 17, 1910 ; *Educ. :* Presidency Coll., Madras. Dist. Munsif, Madras Judicial Service, 1941-47 ; Dy. Secy., Deptt. of Law, Govt. of Madras, Sept. '48–Oct. '49 ; Min. of Law, Govt. of India, Aug. '50–Oct. '51 ; Jt. Secy., Deptt. of Law, Govt. of Madras, Oct. '51–Nov. '53 ; Secy., Deptt. of Law, Govt. of Madras, Aug. '54–. Principal Judge, City Civil Court, Madras, May '59–June '60., Govt. Pleader, Madras High Court, July '60–Aug. '66 ; Judge, Madras High Court, Aug. '66–Aug. '70 ; Chmn., Monopolies and Restrictive Trade Practices Commn. Aug. '70–Oct. 16, '72. *Address :* 36, Aurangzeb Rd., New Delhi 110011.

ALI, Syed Murtaza Fazl, B.A. (Hons.), B.L., Chief Justice, High Court, Jammu and Kashmir State, since Dec. 3, 1967. *b.* Dec. 20, 1920 ; *Educ. :* St. Joseph's Convent, Patna ; Patna Univ., Patna; Muslim Univ., Aligarh. Advocate, Patna High Court, Nov. 7, 1944, and Federal Court, Dec. 1949 ; worked on the panel of lawyers for the State of Bihar in the Patna High Court from 1950 ; Judge, Jammu and Kashmir High Court, 1958-67 ; Chmn., Unlawful Activities (Prevention) Tribunal, 1971 ; Mem., Panel of Jurors for Nehru Award, 1972-75. *Publications :* Ten Years' Questions and Answers of the Patna University on Hindu Law, Mohammadan Law, Contract Act, Torts and Criminal Law. *Address :* Chief Justice's Residence, Sonwar Bagh, Srinagar.

ALI KHAN, Akbar, B.A., LL.B.(Hons.), Governor of Uttar Pradesh, since Nov. 14, '72. *b.* Nov. 20, 1899; *Educ.:* Aligarh & Osmania Univs. Took part in the non-cooperation movement during student days; Vice-Pres., Indian National Congress, 1948; mem. of Senate, Aligarh Univ., Jamia Millia and J. L. Nehru Univ.; was mem., Rajya Sabha and its Hon. Vice-Chairman for a number of years; was also Dy. Leader of the Congress Parliamentary Party. *Address:* Raj Bhavan, Lucknow 226001.

ALI YAVAR JUNG BAHADUR, Dr. Nawab (Mirza Ali Yar Khan), B. A., Hons. (Oxford), Doctor of Laws (Honoris Causa), Osmania Univ., 1956, Padma Bhushan (1959), Governor of Maharashtra, since February 26, 1970. *b.* Feb. 16, 1905; *Educ.:* Nizam Coll., Hyderabad; Queen's Coll., Oxford. Lecturer and then Reader, Modern History and Political Science, 1927-30; Prof., Modern History Osmania Univ., 1930-35, Dir. of Information and Secy. Ext. Affairs Cttee., Nizam's Govt. 1935-37; Secy.: Constitutional Affairs, Information and Broadcasting; 1937-1942; Secy.: Home and Judicial, 1942-46; Vice-Chancellor: Osmania Univ., 1945-'46 & 1948-'52; Aligarh Muslim Univ., 1965-'68; Minister, Nizam's Govt., 1946-47; resigned, 1947; Indian delegate U.N., 1946, '50, '52, '53, '54, and '55; Dy. Chmn., Indian delegation to the General Assembly, 1956, '57, & '60; Leader, Indian delegation to the Economic and Social Council, 1953; Chmn., U.N. Ad Hoc Cttee. for SUNFED, 1956; Amb. to: Argentina and Min. Pleni. to Chile, 1952-54; Egypt and Min. Pleni. to Lebanon and Libya, 1954-58; Yugoslavia, Greece and Min. Pleni. to Bulgaria, 1958-61; France, 1961-65; Mem.: U.G.C., 1966-68; Standing Cttee., Inter-Univ. Board & Academic Cttee., and Governing Board, School of Intn'l. Studies, 1966-68; Chmn., Study Team on Defence, Administrative Reforms Commn., 1967-68; Amb. to U.S.A., 1968-70; Member of cttee. appointed by the Pres. of India to consider and report on the Role of Governors, 1971. *Publications: Hyderabad in Retrospect. Address:* Raj Bhavan, Bombay 400035.

ALKAZI, Ebrahim Hamed, Sangeet Natak Akademi Award as Best Producer of the year (1962); Padma Shri (1966), Dir., National School of Drama and Asian Theatre Inst., since 1962. *b.* Oct. 18, 1925; *Educ.:* The Royal Academy of Dramatic Arts, London. Associate, Drama Board of Great Britain; awarded the Starred Certificate for outstanding work, by the British Drama League; won the B.B.C. Broadcasting Award, 1950; First Pres., Theatre Group, Bombay, 1947; Founder, Theatre Unit's School of Dramatic Arts, Bombay; Principal, Natya Academy, Bombay, till June 1962. *Address:* Rabindra Bhavan, Ferozeshah Rd., New Delhi-110001.

ALVA, Joachim, B.A., LL.B., M.P. (Rajya Sabha), Journalist and Advocate. *b.* Jan. 21, 1907, at Udipi, Mysore. *Educ.:* St. Aloysius Coll., Mangalore, St. Xavier's, Elphinstone and Law Colls., Bombay; started *FORUM*, 1943; Mem., Stg. Cttee., A.I.N.E.C.; Sheriff of Bombay, 1949; twice member, Exec. Cttee., Congress Parly. Party; Mem., A.I.C.C., 1956-57, 1958, and 1969-70; member, Parly. Consultative Cttees. of Ext. Affairs, Defence, Fin. and Atomic Energy, 1957-61; member: Prov. Parlt. of India, 1950-52; MP (Lok Sabha), 1952-67; Indian Rep., Commonwealth Parly. Cfce., 1966; Alternate Indian Delegate to the U.N. Assembly, 1967; nominated member (Rajya Sabha) 1968; Chmn., Publicity and Propaganda Cttee., Indian National Congress, 1969. *Publications: Men and Supermen of Hindustan* (Thackers). *Address:* 28, Rajendraprasad Rd., New Delhi 110001.

AMIN, Ramanbhai Bhailalbhai, Industrialist. *b.* May 19, 1913; *Educ.:* Mechanical Engg. in Germany. Chmn.: Alembic Glass Industries Ltd., Vadodara Industrial Devpt. Corpn. Ltd., Shreno Ltd., Vadodara Dist. Ind. Co-op. Bank Ltd., Gujarat Urban Housing Company, Light Publications Ltd., Neomer Ltd., Aavaran Ltd., Dharak Ltd., Paushak Ltd.; Dir.: Alembic Chemical Works Co. Ltd., Gujarat State Fertilizers Co. Ltd., The Central Pulp Mills Ltd.; was Pres., F.I.C.C. & I.; Central Gujarat Chamber of Commerce; Fedn. of Gujarat Mills and Industries; Mem.: Gujarat State Adv. Council of Industries; Indian Instt. of Public Admn.; India-Japan Business Co-op. Cttee., etc. *Address:* Alembic Chemical Works Co. Ltd., Alembic Rd., Vadodara 390003.

ANAND, Dev, B.A. (Hons.), Motion Picture Actor-Producer-Director. *b.* Sept. 26, 1923; *Educ.:* Govt. Coll., Lahore. Leading role in Prabhat's *Hum Ek Hain* (1946); Important Films: *Ziddi* (1948); *Baazi* (1951); *Taxi Driver* (1954); *Munimji* (Film Critics' Best Actor Award 1955); *Kala Pani* ("Filmfare" Best Actor Award 1958); *Hum Dono* (1961); *Guide* (Multi-award winner—1965); *Johny Mera Naam* (1970) & *Tere Mere Sapne* (1971); Completed more than 70 films; produced about 16 films; directed *Prem Pujari, Hare Rama Hare Krishna, Shareef Budmash* and *Heera Panna. Address:* 2 Iris Park, Juhu, Bombay 400054.

ANAND, Mulk Raj, B.A. (Hon.), Ph.D., Padma Bhushan (1967), Author, Novelist and Critic; Editor, *Marg* Magazine. *b.* Dec. 12, 1905; *Educ.:* Punjab, London and Cambridge Univs. Dean, Faculty of Fine Arts, Panjab Univ., Chandigarh; Editor of various magazines; mem., Sahitya Akademi; Chmn., Lalit Kala Akademi, 1966-71. *Publications: Seven Summers, Morning Face, The Sword and the Sickle, Across The Black Waters, The Village, Two Leaves and a Bud, Coolie, Untouchable, Apology for Heroism, Lines Written to an Indian Air, Hindu View of Art, Persian Painting,* etc. *Address* 25, Cuffe Parade, Colaba, Bombay 400005.

ANDLEY, Sri Narain, B.Sc., B.L., Chief Justice, Delhi High Court, since May 15, '72. *b.* June 4, 1912; *Educ.:* Delhi. Started practice, Lahore High Court, 1938; Agent and Advocate, Federal Court of India and later Supreme Court of India; Judge, Delhi High Court, Jan. '67-May '72. *Address:* 18, Rajpur Rd., Delhi 110006.

ANNAMALAI, Sathappa Annamalai Palaniappa, M.A., B.L., Editor, *Kumudam* (Tamil Weekly). *b.* Dec. 12, 1924; *Educ.:* Loyola Coll. and Law Coll., Madras. *Address:* 83, Purasawalkam High Rd., P.B. No. 1008, Madras 600010.

ANTHONY, Frank Reginald, B.A., Nagpur Univ., M.P., Pres., Anglo-Indian Assn.; member: National Defence Council; Viceroy's Gold Medallist in English, Univ. Prizeman and Scholar, Bar-at-Law of the Inner Temple, London. *b.* Sept. 25, 1908; *Educ.:* Nagpur Univ. and London. Leading criminal lawyer in M.P.; Pres.-in-Chief, Anglo-Indian and Domiciled European Assn., All-India and Burma, 1942; nominated to the Central Leg., 1942 and 1946; one of India's Delegates to the U.N. Gen. Assembly, 1946; member, Constituent Assembly of India; nominated to the Lok Sabha since 1952; represented India at the Commonwealth Parly. Cfce., New Delhi, Dec. 1957; Sr. Advocate, Supreme Court and the Delhi High Court, New Delhi. *Address:* The All India Anglo Indian Association, Bombay Life Bldg., Connaught Circus, New Delhi 110001.

ARUNACHALAM, A. M. M., Industrialist; *b.* March 1918. Chmn.: T.I. Miller Ltd., Tamil Nadu Ind. Investment Corpn. Ltd.; Bundy Tubing of India Ltd.; Dy.

Chmn., Nagpal Ambadi Petro-Chem Refining Ltd., Bombay ; Mg. Dir. : Tube Investments of India Ltd. ; Regional Chmn., Engg. Export Promotion Council, S. Region, 1971 ; Pres. : The Cycle Manufrs. Assn., 1967 ; Chmn., Madras Chamber of Com. & Industry, 1969 ; Dir. Carborundum Universal Ltd., Madras ; Ashok Leyland Ltd. ; New Great Insurance Co. of India Ltd. ; Commerce (1935) Ltd., Bombay ; Kothari Sugars & Chemicals Ltd. ; Bihar Alloy Steels Ltd. ; Union Carbide Ltd. ; etc. ; Hony. Consul-General for Japan in Madras, 1962-65 ; awarded the Order of the Rising Sun by His Imperial Majesty, the Emperor of Japan ; Leader, Indian delegation to the 23rd Congress of the Fedn. of Commonwealth Chambers of Commerce, London. *Address :* "The Laurels", 3, Chittaranjan Rd., Madras 600018.

ARUNACHALAM, M. V., B.Sc. (Hons.) (Madras), Industrialist. *b.* July 1927. Carborundum Universal Ltd., Tube Investments of India Ltd. ; Dir. : Straw Products Ltd., Sree Ram Fibres Ltd., The Deccan Sugar & Abkhari Co. Ltd., Chmn., Govg. Council, Central Electro Chemical Research Inst., Mem. Govg. Body, National Inst. of Bank Management, visited U.S.A., U.K. and West Germany as member, N.P.C. delegation, 1959 ; Under Sheriff, Madras, 1956 ; Pres. : Madras Instt. of Management ; Southern India Chamber of Commerce, 1964 ; mem., Cttee. of F.I.C.C. & I. ; Rotary Governor for Rotary Dist. : 320 for 1970-71 ; President, Indian National Cttee. for Intnl. Chamber of Commerce. *Address :* 2, Greenways Rd., Madras 600028.

ASSUMPCAO DE ARAUJO, H.E. Mr. Roberto Luiz, Ambassador of Brazil in India since '72. *Educ. :* Law Faculty, Univ. of Brazil ; graduated in Pol. Science, Univ. of Chicago and Instt. of Higher Military Studies. Joined Foreign Service and worked in various capacities in Brazilian Embassies in Paris and Vienna ; Consul in Milan, 1959-61 ; Minister Counsellor, Embassy in Paris, 1961-62 ; Charge de'Affairs, Moscow, 1962 ; Amb. to Argel, 1963-66 and to Prague, 1966-68 ; Amb. to Syria, 1969-72. *Address :* Embassy of Brazil, 8, Aurangzeb Rd., New Delhi 110011.

ATREYA, Dr. Bhikhan Lal, M.A., D.Litt., Padma Bhushan, 1957, Knight Commander, Italy, 1949, etc., Philosopher and writer ; Editor : *Darshana International ; Psychics International ; Gaveshna* (Hindi). *b.* Sept. 24, 1897 ; *Educ. :* Banaras Hindu Univ. ; Coll. of Sc., Calcutta Univ. ; Prof., Banaras Hindu Univ., 1923-57 ; Birla Visiting Prof. of Indian Philosophy and Culture to Thailand, China, Japan, U.S.A., England, Poland, etc., 1948, 1951, 1952, 1954 and 1964 ; Hony. Dir.: Child Guidance Clinic, Varanasi ; Research Instt., Rajpur ; Fellow, Intnl. Council of Psychologists ; mem. : Editorial Board, Great English Indian Dictionary ; Intnl. Instt. of Philosophy, etc. *Publications : Shankar's Doctrine of Maya* (Hindi); *The Philosophy of Yogavasistha ; Sri Vasistha Darshanam* (Sanskrit) ; *The Spirit of Indian Culture ; An Intro. to Parapsychology ; A History of Indian Ethics* (Hindi), etc. *Address :* Atreya Niwas, P.O. Hindu University, Varanasi 221005.

AZAD, Brajnandan, B.A. (Hons.), Editor, *Daily Milap*, Jullundur ; Secy. Gen. and Pres.-elect A.I.N.E.C. *b.* April, 1908. Was a Reporter, *The Searchlight*, 1931-35 ; Sub-editor, *The Searchlight*, 1935-37 ; Reporter, *The Indian Nation*, 1937-44 ; Editor, *The Aryavarta* (Hindi daily), 1944-48 ; London Correspondent of *The Indian Nation & The Aryavarta*, 1948-50 ; Editor, *The Indian Nation Evening News*, 1951-53 ; Jt. Editor, *The Indian Nation*, 1953-64 ; Associate Editor, *The Indian Nation*, 1965 and Editor, 1965-72. *Address :* Kadamkuan, Patna.

BACHCHAN, Harbans Rai, M.A. (Alld.), Ph.D. (Cantab.), Soviet Land Nehru Award, 1966, Sahitya Akademi Award, 1969, "Lotus Award" for 1970 by Afro-Asian Writers Cfce., Hindi poet. *b.* Nov. 27, 1907 ; *Educ. :* Allahabad, Banaras and Cambridge. Lecturer, Allahabad, Univ. 1941-55 ; Producer, A.I.R., Allahabad, 1955 ; Officer on Special Duty (Hindi), External Affairs Ministry, New Delhi, 1955-65. *Publications :* Over 50. *Madhushala, The House of Wine, Khadi Ke Phul ; Jan-Gita ; Tribhangima* (Poems) ; *Nai Purane Jharokhe* (Essays) ; *Char Kheme Chaunsath Khunte* (Poems) ; *Do Chottamen ; W. B. Yeats & Occultism* (English) ; *Katti Pratimaon Ki Aoaz ; Kya Bhulan Kya Yad Karun* (Autobiography) ; *Othello, Hamlet & King Lear* (Hindi Translations) ; *Pravas Ki Diary*, etc. *Address :* 20, Presidency Society, 7, North-South Rd., Bombay 400056.

BAHADUR, Raj, Minister for Transport and Shipping, Govt. of India, since March 18, 1971. *b.* Aug. 21, 1912 ; *Educ. :* Bharatpur ; Maharaja's High School and Maharaja's Coll., Jaipur ; Agra Coll. and St. John's Coll., Agra. Vice-Pres., Bharatpur D.C.C. ; elected to the Indian Constituent Assembly, 1948-50 ; Secy., Cong. Party in Parlt., 1950-52 ; Dy. Min. for Communications, 1951-56 ; Min. of State in the Min. of Communications, 1956 ; Min. for Communications, 1956-57 ; Min. of State in the Min. of Transport and Communications 1957-62 ; Min. for Shipping, 1962-63 ; Min. of Transport, Govt. of India, 1963-66 ; Min. of I. & B., 1966-67 ; Amb. to Nepal, 1968-71; Min. for Parltary. Affairs Mar. 18, 1971 — Feb. 4, 1973. *Address :* New Delhi ; Basan Gate, Bharatpur.

BALIGA, B.S.D., Chairman, Railway Board & Ex-Officio Principal Secy., Min. of Railways, since 1971. *b.* Sept. 29, 1914. Joined the East Indian Rly. as Asstt. Engineer, May 1937 ; worked as Exec. Engineer, O.S.D. (Regrouping) and Dy. Chief Engineer, Ganga Bridge Project ; Div. Supdt., 1958-59 ; granted U.N. Fellowship for the study of bridge engineering and modern railway track ; Engineer-in-Chief, North East Frontier Railway, March 20, 1959 ; later became Chief Engineer, D.B.K. Rly. Projects ; Dir. Research Designs and Standards Orgn., 1962 ; Chief Engineer (Const.), Eastern Railway, 1962-65 ; Director, Civil Engg., Railway Board, 1965-67 ; General Manager, Central Railway and later Member, Railway Board, 1967-71. *Address :* Rail Bhavan, New Delhi 110001.

BAMZAI, Kashi Nath, B.A., LL.B. Director, Publications Division, Govt. of India, since Feb. 1972. *b.* July 1, 1915 ; *Educ.:* Sri Pratap Coll., Srinagar ; Lucknow Univ. Pres., Jammu & Kashmir Students Union, 1937-38 ; joined the editorial staff of the *National Herald*, 1939 ; Member, Wkg. Cttee., All India Students Cong., 1941-42 ; started legal practice at Kashmir, 1943 ; enrolled as active member, Jammu & Kashmir National Cfce.; with the *Daily National Standard*, Bombay, 1944-45 ; Asst. Editor, *Blitz* and then its special correspondent at Delhi, 1946 ; Director of Information, Jammu & Kashmir Govt. at Delhi, 1948 ; Officer on Special Duty (Kashmir Publicity), Min. of I. & B., Govt. of India, 1949-65 ; Chief Press Adviser, 1965-66 ; Registrar of Newspapers for India, 1966-1972. *Address :* 91, Lodi Estate, New Delhi.

BANDODKAR, Dayanand B.,* Chief Minister, Goa, Daman & Diu. *b.* 1911. Participated in the Quit India Movement, 1942 ; was arrested by the Portuguese for his nationalistic activities, May 13, 1956 and imprisoned for three months ; helped the underground workers during Goa's freedom struggle : a linguist ; is connected with several social orgns. and is a philanthropist ; is a leading mine owner of Goa. *Address :* Panaji, Goa 403001.

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* Died on Aug. 12, '73.

BANERJEE, Dr. Jayanta Nath, Chairman, Wander Ltd. and Mg. Director, Sandoz (India) Ltd., J.P., *b.* July 10, '27 ; *Educ.:* B.Pharm (Banaras), Ph.D. (Nottingham) ; Research Thesis in Pharmacology (Glasgow) ; Business Management (Columbia, U.S.A.). Ex-Pres., Indian Pharmaceutical Assocn. (Maharashtra Branch) & Ex-Secy. of its Central Council ; mem., National Formulary, Govt. of India ; Scientific & Admn. Cttees. of Haffkine Instt. ; Indian Pharmacopoeia Cttee. ; Study Group for Scientific & Managerial Personnel, Govt. of Maharashtra ; Chairman, Bombay Coll. of Pharmacy. *Address :* 1, Rushilla, Carmichael Rd., Bombay 400026.

BANERJI, S. K., B.A., I.C.S., Lt. Governor, Goa, Daman & Diu, since Nov. 16, 1972. *b.* Oct. 21, 1913 ; *Educ.:* Allahabad Univ. and New Coll., Oxford. Joined I.C.S., 1937 ; Dy. Commr., Khandwa, Balaghat, Nagpur and Akola, 1942-46 ; First Secy. and later, Charge d'Affairs, Indian Embassy, Tehran, 1947-49 ; Dy. Secy., Min. of Ext. Affairs, 1949-51 ; Indian Dy. High Commr., Lahore, 1951-54 ; Consul-Gen. of India, San Francisco, 1954-56 ; Chmn., U.N. Trusteeship Council Visiting Mission to British and French Togoland, 1955 ; Min. of India to Syria, 1956 ; Indian Amb. to Syria, 1957-58 ; High Commr. for India to Malaya and Commr. to Singapore, Sarawak, Brunei and North Borneo, 1958-59 ; Joint Secy., Ext. Affairs Min., 1960 ; Chief of Protocol, 1961-64 and Addl. Secy., Ext. Affairs Min. Jan.-Oct. 1964 ; Amb. to West Germany, Dec. 1964-67 ; Amb. to Japan, Nov. 1967-70 ; Secy. Min. of Ext. Affairs, July 1970 — Nov. '72. *Publications :* Official Reports. *Address :* Cabo Raj Niwas, Caranzalem, Goa.

BANSI Lal, B.A., LL.B., Doctor of Laws (Honoris Causa), Kurukshetra Univ. 1972 ; Doctor of Science (Honoris Causa), Haryana Agri. Univ. 1972 ; Chief Minister, Haryana, since May 21, 1968. *b.* Oct. 10, 1927 at Golagarh village, Hissar District ; *Educ.:* Passed Prabhakar and B.A. examinations privately ; took law degree from Law Coll., Jullundur. Set up practice in Bhiwani, 1956 ; mem., Rajya Sabha, 1960-66 ; was Secy., Loharu Praja Mandal ; was Pres., Hissar Dist. Cong. Cttee. ; elected to the Haryana Leg. Assembly from Tosham Constituency, 1967 & 1972 and in the mid-term poll, May 1968. *Address :* Chandigarh.

BARNES, Leo, B.A., LL.B., General Secretary, The National Union of Seafarers of India. *b.* Nov. 6, 1932 ; *Educ.:* Bombay. Was a seaman ; joined seamen's movement, 1960. *Address :* A 59/1212, Azad Nagar, V. Desai Rd., Andheri (West), Bombay 400058.

BARUA, Bedabrata, B.A. (Hons.), M.A., LL.B., Dy. Minister of Law, Justice & Company Affairs, Govt. of India, since Feb. 5, '73. *b.* July 14, 1928 ; *Educ.:* Cotton Coll., Gauhati ; Presidency Coll., Calcutta. Lecturer in Pol. Science, '52 ; Vice-Principal, D.R. Coll., Golaghat, 1960-67 ; M.P., 1967-70 ; mem., Estimates Cttee., 1969-70 ; re-elected to Lok Sabha, '71. *Address :* 9, Tyagaraja Marg, New Delhi 110011.

BARUA, Hem, M.A., Writer in Assamese and English. *b.* April 22, 1915 ; *Educ.:* Calcutta. Jailed in Quit India Movement, 1942 ; M.P., since 1957. *Publications :* Assamese : *Sagar Dekhicha ; Sanmihali ; Ae Goan Ae Git ; Adhunik Sahitya ; Sahitya Aru Sahitya ; Balichanda ; Ranga Karabir Phul ; Konnaki ; Cupid Aru Psyche* etc. etc. ; English : *August Revolution in Assam ; Fairs and Festivals of Assam ; Modern Assamese Poetry, (An Anthology) ; The Red River and the Blue Hill ; Idle Hours* 1961 ; *Folksongs of India ; Assamese Literature, Lashminath Bezbaroa. Address :* Uttar Sarania, Gauhati 781003.

BASU, Jyoti, B.A., Bar-at-Law, Ex-Deputy Chief Minister-in-Charge of Home, West Bengal ; Member : Polit Bureau, Central Cttee. & W. Bengal State Cttee. of C.P.I.(M), since 1964. *b.* July 8, 1914 ; *Educ.:* St. Xavier's Coll. and Presidency Coll., Calcutta. Was Mem. : Communist Party of India, since 1940 ; Central Exe. Cttee. and National Council, C.P.I. ; West Bengal Cttee., C.P.I. ; detained without trial on several occasions since 1948 ; was leader of the opp. West Bengal Assembly ; Dy. Ch. Min., W. Bengal, March-Nov. 1967. *Address :* 55, Hindustan Park, Calcutta 700029.

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BEWOOR, Gen. Gopal Gurunath, Param Vishishta Seva Medal (1969), Padma Bhushan (1972), Chief of Army Staff, since Jan. 15, 1973. *b.* Aug. 11, 1916; *Educ.:* R.I.M. Coll., Dehra Dun. Commissioned in the Army, July 1937; Served in the old N.W.F.P. & Burma, World War II, commanded 2 Dogra in Kashmir operations; Dir., N.C.C., 1948-51; promoted Brigadier, 1952 and Major-General, 1959; was Chief of Staff, Western Command; was Dir., Military Trg., A.H.Q.; promoted Lt. General, Nov. 1964; was Gen. Officer Commanding-in-Chief, Southern Command, July 1969–Jan. 1973. *Address:* Army Hqrs., New Delhi 110011.

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1964; Chmn., Third Intnl. Film Festival Cttee., Jan. 8–21, 1965; Chairman, Sangeet Natak Akademi, since Dec. 14, 1965; received: Mother's Award, U.S.A., 1953; Yale Univ. Howland Memorial Prize, 1960; awarded the "Isabella D'este" prize for outstanding ability by the Italian Govt., Nov. 1965; Doctor of Literature (*honoris causa*) at the Agra Univ. Convocation, Dec. 4, 1965; Hon. Doctor of Law, Waseda Univ., Japan (1969); elected leader, Cong. Parly. Party, Jan. 19, 1966; Chancellor, Visvabharati Univ. for three years from April 1966; elected to the Lok Sabha from Rae Bareli, Feb. 1967; after the 1967 General Elections, again elected Leader, Cong. Parly. Party, March 12, 1967. Four-day State visit to Ceylon, Sept. 1967; participated in the 50th Oct. Revolution, Moscow, Nov. 1967; went on a 14-day tour of South-East Asia to Singapore, Australia, New Zealand, Malaysia, May–June 1968; went on a 28-day tour of South American Countries, Brazil, Uruguay Argentina, Chile, Colombia, Venezuela, Trinidad and Tobago and Guiana, Sept.-Oct. 1968; attended the Commonwealth Prime Ministers' Cfce., London, Jan. 1969; State visit to: Burma, March 27–30, 1969; Japan, June-July 1969; Indonesia, July 1969; five-day official visit to Mauritius, June 2–6, 1970; went on a 20-day tour of Belguin, Austria, U.K., U.S.A., France, N. Germany, Oct. 1971; Visited Bangla Desh Mar. 17–19, 1972; went on a 11-day tour of Sweden, Czechoslovakia, Hungary, June 1972; participated in the Cfce. of Non-aligned Countries in Lusaka, Sept. 1970; U.N. Silver Jubilee Celebrations, Oct. 1970. *Address:* 1, Safdarjung Road, New Delhi.

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Mysore, 1965–67; Vice-Pres., of India, May 13, 1967 to May 3, 1969; Acting Pres., of India, May–July 1969; State visit to Switzerland, Finland & Poland, June 8–20, 1970; to U.S.S.R., Bulgaria and Hungary, Sept. 21–Oct. 7, 1970. *Publications : Industrial Relations ; Labour Problems in Indian Industry ; Jobs for our Millions. Address :* Rashtrapati Bhavan, New Delhi 110004.

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Podar Mills Ltd. ; Bajaj Electricals Ltd. ; The New Swadeshi Mills of Ahmedabad Ltd. ; The Amitabh Textile Mills Ltd. ; Sahu Rubber Pvt. Ltd. ; The Premier Automobiles Ltd. ; The Gwalior Rayon Silk Mfg. (Wvg.) Co., Ltd. ; Bombay Oxygen Corpn. Ltd. ; Indequip Engg. Ltd. ; The Simplex Mills Co. Ltd. ; Shri Ram Mills Ltd. ; Hindustan Polymers Ltd., Ex-Pres. : Alkali Manufrs.' Assn. of India ; F.I.C.C.I. ; All India Digamber Jain Parishad ; Bharat Jain Mahamandal ; Pres. for two years of Afro-Asian Econ. Cfce. and presided over the Cfce. held at Karachi in Dec. 1963 ; mem. : Indian Merchants' Chamber, Bombay ; Trustee : Bombay Hospital ; Bombay Port Trust ; Founder : Shriyans Prasad Charitable Trust, Bombay ; Dhrangadhra Chemicals Charitable Trust, Bombay ; Sahu Shriyans Prasad Jain Arts and Commerce College, Dhrangadhra. *Address :* Shikhar Kunj, 29-A, Carmichael Rd., Bombay 400026.

JAIN, Shanti Prasad, B.Sc., Industrialist. *b.* Jan. 3, 1912 at Najibabad, Dt. Bijnor, U.P.; *Educ. :* Banaras Hindu Univ. and Agra Univ. Chmn. and Dir. : Sahu Jain Ltd., Rohtas Ind. Ltd., S.K.G. Sugar Ltd., Dehri Rohtas Light Rly. Ltd., Pres. : Bihar Ind. Assn., Patna ; Shri Ahimsa Prachar Samity, Calcutta ; All India Digambar Bhagwan Mahavir 2500th Nirvan Mahotsava Socy., New Delhi ; Ex-Pres. : F.I.C.C.I., New Delhi ; All-India Orgn. of Ind. Employers, New Delhi ; Indian Chamber of Commerce, Calcutta ; Bihar Chamber of Commerce, Patna ; Indian Sugar Mills Assn., Calcutta ; Indian Paper Mills Assn., Calcutta ; Rajasthan Chamber of Commerce & Industry, Jaipur ; Eastern U.P. Chamber of Commerce & Industry, Allahabad ; Employers' Assn., Calcutta ; Chmn.-Trustee : Gobind Ballabh Pant Bhawan Trust, Calcutta ; Rajendra Chhatrabas Samity, Calcutta ; Trustee : Sahu Jain Trust ; Founder Trustee, Bharatiya Jnanpith (Academy), New Delhi. *Address :* "Times House", 7, Bahadur Shah Zaffar Marg, New Delhi-110001 ; *Res. :* 6, Sardar Patel Marg, New Delhi 110021 ; *Calcutta Address : Office :* 11, Clive Row, Calcutta-700001 ; *Res. :* 9, Alipore Park Place, Calcutta-700027.

JATTI, B. D., B.A., L.L.B., Governor of Orissa, since Nov. 8, 1972. *b.* Sept. 10, 1912, at Savalgi, Bijapur Dist. ; *Educ. :* Bijapur Govt. High School ; Rajaram Coll. and Sykes Law Coll., Kolhapur. Practised at Jamkhandi ; was Min., Jamkhandi State ; became its Chief Min. ; nominated M.L.A., Bombay to represent the merged areas ; Parly. Secy. to Mr. B. G. Kher, then Chief Minister of Bombay ; Dy. Min. for Health and Labour, Bombay, 1952 ; M.L.A., Mysore after the reorg. of States ; Chmn., Land Reforms Cttee. ; Chief Min., Mysore State, 1958–62 ; re-elected, M.L.A., Mysore from Jamkhandi constituency, 1962 and 1967 ; Min. for Fin., 1962–65 ; Min. for Food, 1965–67 ; Lt. Governor of Pondicherry, 1968–72. *Address :* Raj Bhavan, Bhubaneswar.

JHA, Lakshmi Kant, B.A. (Cantab.), I.C.S. (Retd.), Governor, Jammu & Kashmir State, since July '73. *b.* Nov. 22, 1913 ; *Educ. :* Hindu Univ., Banaras and Trinity College, Cambridge. Dy. Secy., Govt. of India, Supply Deptt., 1942–46 ; Chief Conllr. of Imports and Exports, 1947–50 ; Chmn. of the Contracting Parties to the G.A.T.T., 1957–58 ; Chmn. U.N. Interim Cttee. for Co-ordination of Intn'l. Commodity Arrangements, 1959–61 ; Jt. Secy., Min. of Commerce and Industry, 1950–56 ; Secy., Min. of Heavy Industries, 1956–57 ; Addl. Secy., Min. of C. & I., 1957–60 ; Secy., Dept. of Economic Affairs, Min. of Fin., 1960–64 ; Secy. to the Prime Minister, 1964–67 ; Governor for India in the I.M.F., since July 1969 ; Governor, R.B.I., 1967–70 ; Ambassador to U.S.A., May '70–June '73. *Publications : India's Foreign Trade,* Parts I & II ; *The International Monetary Scene, Economic Development Ends and Means. Address :* Raj Bhavan, Srinagar.

JONES, Wilson Lionel Garton, J.P., Padma Shri (1965), leading Billiards Player, since 1950. *b.* May 2, 1922 ; *Educ. :* Bishop's High School & St. Vincent's High School, Poona. National Billiards Champion of India, 1950–52, 1955, 1957, 1960, 1961, 1963–66 ; National Snooker Champion of India, 1948, 1952, 1954, 1958, 1960 ; represented India in World Billiard Championships, 1951, 1952, 1954, 1958, 1960, 1962, 1964 and World Snooker Championships in 1963 ; World Billiards Champion (Calcutta) 1958, (Auckland) 1964 ; Arjuna Award, 1963 ; retd. from all competitions, 1967. *Address :* No. 2, Wallace Flour Mills Co., Ltd., Sleater Rd., Bombay 400007.

JOSHI, Miss Damayanti, J.P., Nritya Bhushan (1956), Nritya Sharada (1965), Padma Shri (1970), Recipient, Sangeet Natak Akademi National Award (1968), Kathak Denseuse. *b.* Dec. 5, 1932 ; performed at many Intnl. Cfces. including the UNCTAD in 1968 ; Govt. of India's Cultural Delegation to China, 1953 ; Japan, 1958 ; West Asian Countries and Nepal ; GDR, Poland and U.S.S.R., 1972 ; mem., Prime Minister's delegation to Afghanistan 1969 ; *Address :* D-1, Jeshtharam Baug, Tram Terminus, Dadar, Bombay 400014.

JOSHI, Shridhar Mahadev, B.A., LL.B., Politician ; ex-Chmn., Samyukta Socialist Party ; Social Worker. *b.* Nov. 12, 1904 ; *Educ. :* Ratnagiri ; New English School, Fergusson Coll. and Poona Law Coll., Poona. Joined Congress, 1930 ; Founder Mem., Cong. Socialist Party ; Mem., Bombay Assembly, 1952–62 ; Gen. Secy. : Samyukta Maharashtra Samiti ; Vice-Pres., All India Defence Employees' Fedn. *Address :* 1170, Sadashiv, Poona 411002.

JOSHI, Umashankar Jethalal, M.A. ; Bharatiya Jnanpith Award for 1967 with Dr. K. V. Puttappa, Gujarati Poet, Critic, Essayist ; Former Vice-Chancellor, Gujarat Univ., Nov. 1966–Nov. 1972 ; Mem. : Rajya Sabha (nominated) since April 1970 ; Editor, *Sanskrit,* Gujarati monthly, since 1947. *b.* July 21, 1911. *Educ. :* Bamna ; Idar High School ; Gujarat Coll. ; Elphinstone Coll. *Publications : Vishva Shanti ; Gangotri ; Nisheeth ; Gul-e-Poland*(Tr.) ; *Prachina ; Atithya ; Sapna Bhara ; Shaheed Shravani Melo ; Visamo ; Goshthi ; Ughadi Bari ; Samasamvedan ; Akho—a Study ; Abhiruchi ; Vasant Varsha ; Abhijna ; Kavini Sadhana, Shri ane Saurabh ; Gujarat in the Puranas ;* Translations : *Uttar-Ramacharita, Sakuntala. Address :* 'Setu', 26 Sardar Patel Nagar, Ahmedabad 380006 ; 301, V. P. House, Rafi Marg, New Delhi 110001.

JURGENSEN, H.E. Mr. Jean-Daniel, Agrege, Des Lettres, Croix De Guerre, 1939-45 ; Officier Dela Legion D'Honneur, Ambassador of France to India. *b.* July 4, 1917 ; *Educ. :* Ecole Normale Superieure, Paris. Mem., French National Assembly, 1944-46 ; French delegation to U.N., 1947-51 ; Head, Desk of Africa and German Affairs, Foreign Min., 1951-59 ; Dy. Rep. to N.A.T.O., 1959-64 ; Dir. of American Affairs, 1964-69 ; Dy. Dir. of Pol. Affairs, 1969-72. *Publications : Chretien Ou Marxiste* (1969), articles in *Revue De Politiqse Etrangere, Revue De Defense Nationale* (Paris) and *Ministere Des Affaires Etrangeres* (Paris). *Address :* French Embassy, 2, Aurangzeb Rd., New Delhi 110011.

KAMALADEVI CHATTOPADHYAY, Smt., Politician and Social Worker ; Ex-Chmn., All-India Handicrafts Board. *b.* 1903 ; *Educ. :* Mangalore, Bedford Coll., School of Economics, London. Member, AICC and Wkg. Cttee., Orgg. Secy., then Pres., All India Women's

Cfee.; Pres., Indian Co-op. Union; Vice-Pres., World Crafts Council; founder, Indian National Theatre Centre of the Intn'l. Theatre Instt.; awards: Watumal, Magsaysay for Community Leadership, 1966, "Deshikottama" title awarded by Vishwa Bharati Univ. at Shantiniketan for outstanding achievements, 1970. *Publications:* (ten books): *Indian Handicrafts; Indian Carpets & Floor Coverings; Socialism and Society; Awakening of Indian Womanhood; Towards a National Theatre*, etc. *Address:* 20, Canning Lane, New Delhi; 6, Chateau Marine, Marine Drive, Bombay 400020.

KAMARAJ, K., M.P. (Lok Sabha), Ex-Pres., Indian National Congress; Ex-Chief Min., Madras State. *b.* 1903; *Educ.:* Virudhunagar, Ramnad Dist., Tamil Nadu. Entered public life 1920; elected member, Wkg. Cttee., Tamil Nad Cong., and member, A.I.C.C., 1931; elected Secy., T.N.C.C., 1935; elected to Madras Legis. Assembly, 1937 and again in 1946; elected Chmn., Virudhunagar Municipality, 1941; under detention, 1942–45; elected to the Constituent Assembly of India, 1947; chosen as a member, A.I.C.C. Wkg. Cttee., 1949; elected to Parlt., 1951 and in bye election from Nagercoil, 1969; Pres., T.N.C.C., 1939–54; elected Leader, Madras Legis. Cong. Party, March 30, 1954, 1957 and 1962; Chief Min., Madras, 1954–63; sponsored the "Kamaraj Plan" for revitalising the Cong. orgn.; resigned under this plan for party work, Oct. 2, 1963; Pres., Indian National Congress 1963–68; elected to Lok Sabha 1971. *Address:* No. 8, Tirumalai Pillai Rd., Tyagaraja Nagar, Madras 600017.

KANTAWALA, Ramanlal Maneklal, M.A., LL.B. Chief Justice, High Court, Bombay, since Oct. '72. *b.* Oct. 6, 1916; *Educ.:* Elphinstone Coll. & Govt. Law Coll., Bombay; B.A. 1938; became Duke of Edinburg Fellow of Bombay Univ. and won Dastur prize, Mugaseth prize and Dr. R. P. Paranjpe prize; Dakshina Fellow of Elphinstone Coll., 1938-40; M.A., 1940; LL.B., 1941. Judge, Bombay High Court, Feb. 1962 — Oct. 1972. *Address:* Mahavir, 37A, Ridge Rd., Malabar Hill, Bombay 400006.

KAPOOR, Ranbir Raj, Producer, Dir., Actor and Editor. *b.* Dec. 14, 1924; *Educ.:* Calcutta and Bombay. Produced the films: *Aag, Barsat, Awara, Shree-420, Boot Polish, Aah, Jagte Raho, Jis Desh Men Ganga Behti Hai, Sangam, Mera Nam Joker, Kal Aaj Aur Kal, Bobby;* won the Filmfare award for best acting (*Anari*), 1959, (*Jis Desh Men Ganga Behti Hai*), 1961; direction (*Sangam*), 1964; editing (*Sangam*), 1964; mem.: Jury on Intn'l Film Festivals, Berlin, Karlovy Vary, Moscow, 1966–69; Chmn. of the Jury, 4th Intn'l. Film Festival, New Delhi, Dec. 1960; won the Grand Prix at the Intn'l. Film Festival, Karlovy Vary, Czechoslovakia, for his film *Jagte Raho*, 1958. *Address:* Devnar Cottage, Devnar Farm, Trombay Road, Chembur, Bombay 400071.

KARAKA, D. F., *b.* 14th April 1911; First Indian Pres. Oxford Union, 1934. *Publication: Then Came Hazrat Ali and Others. Address:* 12, Carmichael Rd., Bombay 400026.

KARAN SINGH, M.A., Ph.D., Minister for Tourism & Civil Aviation, Govt. of India, since March 1967. *b.* March 9, 1931; *Educ.:* Doon School; Univ., Jammu & Kashmir; Delhi Univ. Appointed Regent, J & K, 1949; elected Sadar-i-Riyasat (Head of State) by J & K Leg. Assembly, 1952; re-elected, 1957 and 1962; Governor, J & K State, April '65-March '67; elected to the Lok Sabha from Udhampur Constituency, 1967; Secy., Jawaharlal Nehru Memorial Fund, 1966; Chmn., Indian Board for Wild Life; Convener, National Cttee. for the Sri Aurobindo Centenary; Honorary Major-General, Indian Army; Author. *Address:* 'Mansarovar', 3, Nyaya Marg, Chanakyapuri, New Delhi 110011.

KARANJIA, Burjor Khurshedji, B.A. (Hons.) (1939), I.C.S. (1943), Editor, *Filmfare*, since 1961 and Chairman, Film Finance Corporation, since 1969. *b.* Dec. 21, 1919; *Educ.:* St. Xavier's High School and Wilson Coll., Bombay. Launched film monthly, *Cinevoice*, 1947 and film weekly, *Movie Times*, 1949; won a U.N. Scholarship for thesis on "Education for World Understanding"; Publicity Manager, Godrej, 1953–61. *Publications: Portrait of a Citizen* — a biography of R. P. Masani; *More of an Indian* — a novel. *Address:* Quetta Terrace, Chowpatty, Bombay 400007.

KARANJIA, Russy K., B.A. (Hons.), Publisher & Journalist Editor-in-Chief, *Blitz News Magazine* (Weekly in English, Hindi, Urdu & Marathi language editions) *b.* Sept. 15, 1912. *Educ.:* St. Xavier's High School & Wilson Coll., Bombay; took trg. in journalism in India & U.K. Commenced journalistic career as reporter, sub-editor, spl. correspondent with the *Times of India* publications; Dy. Editor, *Sunday Standard;* Editor-in-Chief, *Sunday Standard & Morning Standard* (now *Indian Express*); started *Blitz* in Feb. 1941; Editor & Dir., *Blitz* Publications; Author of *How Others See Us, Seato, Arab Dawn, Dawn or Darkness, China Stands Up, The Mind of Mr. Nehru, The Philosophy of Mr. Nehru, How Nasser Did It*, etc.; his intimate interviews with revolutionary leaders like Jawaharlal Nehru, Nikita Khrushchov, Fidel Castro & Gamal Nasser earned him the title of "Chronicler of revolutions & biographer of revolutionaries"; presented a machine-gun named "Port Said" by Pres. Nasser of U.A.R. & the award of the Republican Order of Merit (Grade I), the highest honour of the State. *Address:* Framroz Court, N. Subash Rd., Bombay.

KARUNANIDHI, M., Chief Minister, Tamil Nadu, since Feb. 1969. *b.* June 3, 1924, at Thirukkuvalai, Thanjavur Dist.; *Educ.:* Thiruvarur Board High School. While a student joined the Dravida Kazhagam; founded with Arignar C. N. Annadurai and others, the Dravida Munnetra Kazhagam, 1949; became its Treasurer, 1960; Founder Editor, *Murasoli* daily, *Mutharam* bi-monthly and *Maravan Madal* Weekly — all in Tamil; a good orator, poet and play-wright; has written scripts for several Tamil films; has produced some popular Tamil films; widely known as Kalaignar; M.L.A., Tamil Nadu, since 1957; Dy Leader of Opp. 1962–67; Min, for P.W.D. 1967–69; elected leader, D.M.K. Leg. Party, Feb, 9, 1969; elected Pres., D.M.K. Party, 1969; Distinguished Service citation honour as leader of Tamil Culture by World Assn. of Poetry Society, 1970; Doctorate by Annamalai Univ., 1971; Recipient of the distinguished title *Tamizha Vell*, 1971. *Address:* 7-A, South Gopalapuram, Fourth St., Madras 600006.

KAUL, Triloki Nath, B.A. (Hons.) (Punjab), LL.B. (Alld.), LL.M. (London), Fellow, Royal Soc. of Arts, London (1963), Hony. Fellow, Kings Coll., London Univ., I.C.S., Ambassador to U.S.A., Since March 3, 1973. *b. Feb.* 8, 1913; *Educ.:* S. P. Coll., Srinagar; Prince of Wales Coll., Jammu; Law Faculty, Allahabad; King's Coll. & School of Oriental Studies (London Univ.). Passed I.C.S., 1936; Secy., Indian Council of Agril. Research, Govt. of India, 1945-47; First Secy., Indian Embassy: Moscow, 1947-49; Washington, 1949-50; Dy. Secy.-Genl., Indian Delegation to U.N., 1947; Counsellor & later Min., Indian Embassy, Peking, 1950-53; Jt. Secy., Min. of Ext. Affairs, Govt. of India, 1953-56; Chmn., Intn'l Commn., and leader, Indian delegation, Viet Nam, 1957-58; Amb. to

Iran, 1958-60 ; Dy. and Ag. High Commr., London, 1960-62 ; Amb. to U.S.S.R. and Mongolia, 1962–66 ; Secy., Ext. Affairs Min., 1966–68 ; Foreign Secy. Govt. of India, 1968-73. *Address :* C/o Ministry of External Affairs, New Delhi.

KERREMANS, H.E. Dr. Charles, A.O., Ph.D. Ambassador of Belgium to India, since March 1970. *b.* Oct. 28, 1915. Joined the Belgian Foreign Service, 1946 ; served in different capacities in Belgian Missions abroad including Bonn, Vienna, Paris ; was attached to the Royal Court, April 1956 ; promoted Chamberlain to His Majesty the King, July 1964 ; Ambassador for Belgium to Finland, 1965-70 ; holds several Belgian and foreign honorary distinctions. *Address :* 24, Tilak Marg, New Delhi 110001.

KESKAR, Dr. Balkrishna Vishwanath, D.Litt. (Paris), 1935, Chairman : Cement Corpn. of India. *b.* 1903 ; *Educ. :* Poona, Hyderabad, Banaras (Kashividyapith) and Paris. Congress worker in the U.P. since 1920 ; Gen. Secy., Indian National Cong., 1946 ; elected to the Constituent Assembly from U.P., Dec. 1947 ; Mem., Indian delegation to the U.N. Gen. Assembly, 1950 ; Constituent Assembly, Dec. 1947-52 ; M.P., Lok Sabha, 1952-62 ; Dy. Min. for Ext. Affairs, 1948-52 ; Min. of Information and Broadcasting, 1952-62 ; mem., Foreign Affairs Sub-Cttee. of Cabinet, 1958-62 ; Chairman, Road Transport Taxation Enq. Cttee. ; Union Min. of Transport, 1965-67. *Address :* 3, Kushak Road, New Delhi 110011.

KHADILKAR, R. K. B.A., LL.B., Minister of Health and Family Plng. since Feb. 5, 1973. *b.* Dec. 15, 1905 ; *Educ. :* Fergusson and Law Colls., Poona, Univ. of Bombay. Social and political worker ; mem. : Poona Univ. Court ; Indian Natl. Cong., 1930-48 ; M.P.C.C. ; Founder-mem., Congress Socialist Party, 1934 ; Mg. Editor, *Lokshakti,* Congress Daily, 1939-40 ; left Congress and organised All India Peasants and Workers Party, 1948 ; its Gen. Secy., 1953 ; rejoined Congress, 1962 ; mem., Lok Sabha, since 1957 ; member and Chmn., P.A.C., Lok Sabha ; Dy. Speaker, Lok Sabha, 1967-69 ; Min. of State in the Min. of Fin., 1969-70 ; Min. of Supply, Govt. of India, June 1970-March 1971 ; Min. of Labour & Rehabilitation, Govt. of India, Mar. 1971-Feb. 4, 1973 ; visited U.S.A. as member, Parly. Delegation, 1963. *Publications : Nava Cheenchya Nirmitichi Roopresha. Address :* 'Pushpak', Laxmi Rd., Poona 411030 ; 1, Tughlak Rd., New Delhi 110011.

KHAITAN, Matadin, Business man. *b.* May 1913. Is Cttee.-member, Calcutta Stock Exchange Assn. ; Indian Sugar Mills Assn. ; Life-member, Indian Red Cross Socy. ; mem. : Devpt. Council for the Sugar Industry, Govt. of India ; Indian Sugar Cane Devpt. Council, Govt. of India, New Delhi ; Dir. : Matadin Khaitan & Co., (P.) Ltd. ; Vegetable Products Ltd. ; Hind Sugar Co. Ltd. ; Tulsipur Sugar Co. Ltd. ; Trustee : Matadin Khaitan Charitable Trust ; Gyan Bharati. *Address :* Khaitan House, 27, Vivekanand Rd., Calcutta 700007.

KHAN, Shah Nawaz, Minister of Supply, Govt. of India, Since Feb. 5, '73. *b.* Jan. 24, 1914 ; *Educ. :* Indian Military Coll. & Indian Military Academy, Dehra Dun. Commissioned into the Indian Army, '36 ; joined the Indian National Army under Netaji Subhas Bose ; G.O.C., Congress Seva Dal, '46 ; M.P., 1952-67 ; Chairman, National Seeds Corpn. Ltd., June '68-Jan. '71 ; concurrently Chairman, F.C.I., Dec. '68 — Jan. '71 ; Min. of State for Steel & Mines, Govt. of India, May '71 — Feb. 4, '73. *Publications : I.N.A. & its Netaji. Address :* 14, Akbar Rd., New Delhi 110011.

KHAN, Ustad Bismillah, Padma Shri (1961), Padma Bhushan (1968), Musician. *b.* March 21, 1916 at Dumraon, Shahabad Dist., Bihar ; *Educ. :* Received Shahnaee training under his uncle Ali Bux Khan and father Paigamber Khan. Gave his first public performance at the age of 14 at the All India Music Conference at Allahabad, 1930 ; Academy Award for Hindustani Instrumental Music, 1956 ; participated in the Edinburgh International and the Commonwealth Arts Festival, London & Liverpool, 1965 ; gave numerous musical concerts at the Expo '67 at Montreal, Canada including the Lincoln Centre, New York, U.S.S.R., and all the countries of the Middle East, 1967 ; participated : the Sheraz Festival, Iran & Nepal, Oct. 1968 ; Intn'l. Music Council, Cannes, Jan. 1970 ; attended the Expo '70 in Japan, May 1970 and gave concerts in Hong Kong. *Address:* C. K. 46/62, Sarai Harha, Banaras.

KHANNA, Mr. Justice Hans Raj, B.A. (1932), LL.B. (1934), Judge, Supreme Court of India, since Sept. 1971. *b.* July 3, 1912 ; *Educ. :* Amritsar & Lahore ; was Dist. & Sessions Judge, Ferozepore and Ambala ; Judge, Punjab High Court and Delhi High Court ; Chief Justice, Delhi High Court, 1969–71 ; Commission of Inquiry on police firing at Kalka Rly. Stn. in 1956 and into the charges against Orissa Ministers ; tried Ram Krishna Dalmia & others as Spl. Judge. *Address :* 6, Motilal Nehru Marg, New Delhi.

KIDWAI, Akhlaq-ur-Rahman, Dr., B.A. (Jamia), M.S. (Illinois), Ph.D. (Cornell), Chairman, Union Public Service Commn., Govt. of India, since Feb. 5, 1973. *b.* July 1, 1920. *Educ. :* New Delhi and U.S.A. Fellow, Chemical Socy., London ; Indian Chemical Socy., Prof. ; Head, Chemistry Dept. and Dean, Faculty of Sce., Aligarh Univ. 1967 ; Mem., National Cttee. on Sce. & Tech. ; Central Adv. Bd. of Educ., and U.P.S.C. Sept. 1967–Feb. 1973. *Publications :* Over 40 Research papers on the Chemistry of Natural Products, Synthetic Organic Chemistry and Biochemistry. *Address : Off. :* Dholpur House, Shahjahan Rd., New Delhi ; *Res. :* 8, Safdarjang Lane, New Delhi 110011.

KILACHAND, Ambalal, Business man. *b.* July 23, 1912 ; *Educ. :* Elphinstone High School, Bombay and in England. Dir., Kilachand Devchand & Co. Private Ltd., Kesar Sugar Works Ltd., The New Great Ins. Co. of India Ltd., The Indian Dye-Stuff Industries Ltd., Polychem Ltd., Bombay Suburban Electric Supply Ltd., Aero Auto Ltd., Kamal Shipping Co. Ltd., Citric India Ltd., Eastern Bunkerers Ltd. ; former Trustee, B.P.T. ; mem., Bombay Customs Advisory Cttee. ; Cttee. mem., F.I.C.C. & I., New Delhi ; Indo American Chamber of Commerce, Bombay ; Pres., Indian Merchants' Chamber, 1953–54 ; mem., Import Adv. Council, Govt. of India till 1956 ; Pres. : All India Plastic Manufrs. Assn., 1963 ; Rotary Club of Bombay 1965–66. *Address : Office :* 7, Jamshedji Tata Rd., Churchgate Reclamation, Bombay 400020 ; *Res. :* 95, Nepean Sea Rd., Bombay 400006.

KILACHAND, Ramdas, Business man ; J.P. *b.* Sept. 18, 1909 ; *Educ. :* Elphinstone High School, Bombay and in England. Joined his family firm of Kilachand Devchand & Co., Pvt. Ltd., 1926 ; Pres., East India Cotton Assn. Ltd., Pres., Bombay Oilseeds & Oil Exchange Ltd. ; Chmn., Polychem Ltd. ; is Dir. : Kesar Sugar Works, Ltd. ; Synthetics & Chemicals Ltd., etc. Ex-Trustee, Bombay Port Trust ; Pres., Indian Merchants' Chamber, 1948–49 ; mem. : Indian Oilseeds Devpt. Council ; Export promotion Council for Oilseeds, Oils, Oilcakes ; Ambaji Mata Temple Adm. Cttee. ; Chhaganlal Valchand Jain Gen. Hospital ; elected M.L.A., Bombay, 1952; Trustee, Bombay Panjrapole; North Guj. Educ. Socy., etc.; Pres., Commerce Graduates' Assn., 1964–66. *Address: Office:* 7, Jamshedji Tata Rd., Churchgate Reclamation, Bombay 400020; *Res.:* 95, Nepean Sea Rd., Bombay 400006.

KILACHAND, Tulsidas, Business man; Chmn., Kilachand Devchand & Co. (P.) Ltd. *b.* July 1, 1906; *Educ.:* Elphinstone High School, Bombay & privately in England. Has been Chmn.: Synthetics & Chemicals Ltd.; New Great Ins. Co. of India Ltd.; India Reinsurance Corpn. Ltd.; Kesar Sugar Works Ltd.; and AMCO Ltd.; Vice-Chmn., Premier Automobiles Ltd.; Dir.: Walchandnagar Ind. Ltd.; Premier Construction Co. Ltd.; Tata Chemicals Ltd.; Intnl. Instt. of Synthetic Rubber Producers and its Far Eastern Section; Chairman, Bank of Baroda, 1932–65; Leader, Govt. of India's Trade Mission to Japan, 1947; was mem.: Export Adv. Council of the Govt. of India; Plng. Commn. Adv. Board, 1950–51; Stg. Cttee of the Export Promotion Adv. Council & other bodies; Pres., F.I.C.C. & I., 1950–51; Chairman: Bagalkot Cement Co. Ltd., 1949–67; Indian Banks' Assn., 1961–65; was Governor, Adm. Staff Coll. of India, Hyderabad; elected M.P., 1952. *Address: Office:* 7. Jamshedji Tata Rd., Churchgate Reclamation, Bombay 400020; *Residence:* 95, Nepean Sea Rd., Bombay 400006.

KIRLOSKAR, Shantanu Laxman, B.Sc. Padma Bhushan (1965), "Sir Walter Puckey Prize" (1968), awarded 'Karma Virottama' by Engg. Assn. of India Calcutta (1972), Hony. Life Member, Instt. of Engineers (India), Industrialist; Chmn. and Mg. Dir., Kirloskar Oil Engines Ltd., Poona and Kirloskar Bros. Ltd., Poona. *b.* May 28, 1903; *Educ.:* India; Massachusetts Instt. of Technology, U.S.A. Started career with Kirloskar Bros. Ltd., expanded his business on the engineering side; Pres., F.I.C.C. & I., 1965–66; First Pres., Indo-American Chamber of Commerce; Chairman, of 10 Companies incl. Kirloskar Pneumatic Ltd., Poona, Swastik Rubber Products Ltd., Poona, etc.; Member: Mahratta Chamber of Commerce and 40 other major establishments; is Dir. of 12 companies including Reserve Bank of India (Central Board) & Industrial Devpt. Bank; is nominated by Govt. of India as a member, Board of Trade; Chairman, Cttee. of Economic Devpt., India. *Address: Office:* Kirloskar Oil Engines Ltd., Elphinstone Rd., Pune 411006; *Residence:* "Lakaki", Pune 411016.

KOHLI, Vice Admiral Sourendra Nath, B.A. (Hons.), Padma Bhushan (1972); Chief of Naval Staff, since March 1, 1973. *b.* June 21, 1916; *Educ.:* St. Stephen's Coll., New Delhi; joined Navy, 1936; received initial training in U.K. and specialised in Signal Communication; saw action in World War II in Persian Gulf and the Far Eastern Theatre; Commissioned and Commanded INS "RANA" 1949–50; Director of Naval Plans in Naval Headquarters, 1950–52 and 1957–58; Commanding Officer, INS "GODAVARI" and Captain (Destroyers), 22 Destroyer Squadron, 1953–55; Naval Adviser to High Commr. of India in U.K., 1955–57; Commanded INS "MYSORE', 1958–60; did the course at National Defence College, 1960–61; Commodore Supdt., Naval Dockyard, 1961–63; served as Principal Staff Officer in Naval Hq., first as Chief of Material, 1963–64 and then as Vice-Chief of Naval Staff, 1964–67; promoted to Flag rank, Dec. 1965; Commanded Indian Fleet, 1967–69; awarded Param Vishisht Seva Medal, 1968; Commandant, National Defence College, 1969–71; FOC-in-C, Western Naval Command Feb. 1971–Mar. 1973. *Address:* Naval Hqrs., N. Delhi 110011.

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KURUP, G. Sankara, (Pen name 'G'), Jnanpith Award for his book *Odakuzhal* (1965), Padma Bhushan (1968), M.P. (Rajya Sabha) 1968–72 ; Malayalam Writer ; Mem. : Sahitya Akademi General Council ; Hon. mem., P.E.N. (India). *b.* June 1901. *Educ. :* Privately. Joined service as teacher, 1921 ; was Malayalam Prof., Maharaja's Coll., Ernakulam ; Sahitya Akademi Award for the collection of poems 'Viswadarsanam' in 1963 ; Soviet Land Nehru Award, 1967. *Publications :* Poems : *Sahitya Kautukum ; Suryakanti ; Viswadarsanam ; Odakkuzhal ; Muthukal ; Ithalukal ; Antardaham ; Jeevana Sangeeta,* etc. Translations : *Meghachaya ; Megha Dutha ; Vilasalahari ; Omar Khayyam, Gitanjali* and *Ekotharasathi* from Bengali ; One Act Plays : *Irruttinumunpu ; Sandhya,* etc. ; Prose : *Gadyopaharam ; G. Yute Notebook ; Muthum Chippiyum ;* Children's poems : *Ilamchundukal ; Olappeeppi ; Katte vaa, Katale vaa ; Utrenya Svesta,* a Collection of Russian renderings. *Address :* Bhadralayam, Ernakulam, Cochin 682003.

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LAL, Air Chief Marshal P. C., D.F.C., Padma Bhushan ; Padma Vibhushan (1972), Chairman, Indian Airlines, since, Aug. 1, 73. *b.* Dec. 6, 1916, at Ludhiana ; *Educ.* : Delhi ; King's Coll., London ; obtained amateur pilot's licence, 1934. Commissioned in the I.A.F., Nov. 1939 ; assumed command of No. 7 squadron, June 1944 ; mentioned in despatches and awarded D.F.C. for his part in the Burma operations, 1944 & 1945 ; held several senior appts. including those of Dir. of Plns at Air Hqrs., Dy. Secy. (Military) to the Cabinet and A.O.C. Trg. Command ; Gen. Mgr. I.A.C., 1957-62 ; was Air Officer incharge of Maintenance at Air Hq., A.O.C.-in-C. Western Air Command, Vice Chief, Air Staff till Sept. 1966 ; Mg. Dir., Hindustan Aeronautics Ltd., 1966-68 ; Chairman, HAL, Jan. 1969-Feb. 71 ; Chief of the Air Staff, Indian Air Force, July 16, '69, to Jan. 15, 73. member, Board of Dirs., Air India. *Address* : Airlines House, 113, Gurudwara Rakabganj Rd., New Delhi 110001.

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PATEL, Surgeon Commodore Jal Ratanji, M.D., F.C.P.S., F.C.C.P., F.I.C.A., F.A.C.C. (U.S.A.), Padma Bhushan (1962), Hon. Physician to the President of India; Dir., Post-graduate & Research in Pharmacology, Grant Medical Coll., Bombay; Ex-Prof. of Pharmacology now Emeritus Prof. of Pharmacology, Grant Medical Coll., Bombay; Ex-Chmn., Central Drug Research Instt., Lucknow; Fellow: American Coll. of Chest Physicians; Intnl. Coll. of Angiology, U.S.A.; American Coll. of Cardiology; Examiner in M.D., and Ph.D., Univs. of Bombay, Lucknow and Madras; Hon. Cardiologist for Defence Service Personnel stationed in Bombay (I.N.H. Aswini); Hon. Consulting Physician, Bombay Telephones; Ex-Hon. Consulting Physician and Cardiologist, Central & Western Railway hospitals, Bombay; Nominated Mem., Maharashtra Medical Council, since Aug. 1964; awarded Hon. Rank of Surgeon Captain in the Indian Navy by the President of India, 1961; Fellow, Univ. of Bombay; Mem., Indian Instt. of Biochemistry and Experimental Science (Calcutta). Research Work : Some observation on the blood pressure of dogs with special reference to Supra Renal Cortex, Experimental work on Tranquillizer, etc. *Address :* Bombay House, 24, Bruce St., Fort, Bombay 400001.

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PILLAI, Thakazhi Sivasankara, Malayalam Writer; Laywer. *b.* April 14, 1914; *Educ.:* Home Village; High School, Karuvatta; Law course, Trivandrum. Began writing at the age of 15; one of the pioneers of realism in Malayalam literature and the progressive movement in Kerala; won the Sahitya Akademi Award in 1957 for the novel *Chemmeen* which has been translated into Russian and Czech, and English ; his novel *Rantidangazhi* is being translated into all the major languages in India by the Sahitya Akademi ; member, Kerala Sahitya Akademi. *Publications :* More than 500 short stories and 15 novels. *Address :* Thakazhi, Ambalapuzhai, Kerala.

PISHAROTY, Dr. Pisharoth Rama, B.A. (Hons.), M.A. (Madras), M.A. (Calif.), Ph.D. (Calif.), Padma Shri (1970) ; Scientist ; Sr. Professor, Physical Research Laboratory, Ahmedabad since 1966. *b.* Feb. 10, 1909 ; *Educ. :* Trichinopoly, Bangalore and California (Los Angeles). Conducted substantial research under Sir C. V. Raman at Bangalore ; joined the India Meteorological Deptt., 1942 ; Research Meteorologist in U.S.A., 1952–54 ; Dir., Colaba & Alibagh Observatories, 1959–62 ; Instt. of Tropical Meteorology, 1962–66 ; is a mem., Meteorological Socys. in India, U.K., and U.S.A. ; Fellow, Indian Academy of Scs. ; Indian rep. at several intnl. meetings of the World Meteorological Orgs., since 1954 ; mem. : Joint Organising Cttee., for GARP/WMO/ISCU ; Chmn., WHO Adv. Cttee., 1968 ; Vice-Pres. : India Met. Socy. *Publications :* 60 Scientific papers — about ten in physics and the rest on meteorology and geomagnetism. *Address :* Professor, Physical Research Laboratory, Ahmedabad 380009.

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Purulia (West Bengal); *Educ.:* Ravenshaw Collegiate School, Ravenshaw Coll., and M. S. Law Coll., Cuttack; called to the Bar from Lincoln's Inn, Nov. 1954. Set up practice at Calcutta High Court, May 1956; first ever Indian to: attempt and swim the English Channel from Dover to Calais, Sept. 1958, in 14 hours 45 mins., then the fourth fastest in this direction; first man to swim the Palk Strait, a distance of 22 miles between India and Ceylon in 25 hrs. 36 min., 5/6 April, 1966; first Asian to swim the straits of Gibraltar on Aug. 24, 1966; first man to swim the Dardanelles Straits a distance of about 40 miles in 13 hours and 55 minutes, Sept. 12, 1966; swam the straits of Bosporus, 16 miles, Sept. 21, 1966; Panama Canal 42 miles, 35½ hours, Oct. 29 to 31, 1966; acknowledged as the world's Greatest Long Distance Swimmer by Guinness Book of Records, Lond. 1969. Founder, Explorers' Club of India, Calcutta. *Address:* 10, Government Place East, Calcutta 700001.

SEN, Monishi Mohan, B.A. Hons. (Econ.), I.C.S., Secretary, Deptt., of Defence Supplies, Min. of Defence, since Jan. 3, '73. *b.* Dec. 14, 1919; *Educ.:* Pres. Coll., Calcutta. Appointed to I.C.S., '44 and W. Bengal Govt. service till '58; Dy. Secy., Min. of Defence, 1958-60; Jt. Secy., 1960-71; Chief Controller of Imports & Exports, 1971-73. *Address:* Min. of Defence, South Block, New Delhi 110011.

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Samaj ; Chairman, Intnl. Forum and the Textile Commn. ; Gen.-Secy., Central Citizens' Council, since 1965 ; Minister for I. & B., 1967–69 ; Min. for Health & F. Planning, Works, Housing & Urban Devpt., Feb. '69–April '71. *Address :* Raj Bhavan, Madras 600 022.

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SHAM LAL, Editor, *The Times of India*, Bombay, since Nov. 1967 ; Editor : *The Times of India Annual*, Bombay, and *The Times of India Directory & Yearbook including Who's Who*, Bombay. *b.* Nov. 7, 1912 ; *Educ. :* M.A., Govt. Coll., Lahore, 1933. With *The Hindustan Times*, 1934–46 ; Asstt. Editor, *Indian News Chronicle*, Delhi, 1946–50 ; joined *The Times of India* as Asstt. Editor, 1950 ; Resident Editor, *The Times of India*, Delhi edition, 1963–67 ; writes an occasional political column "The National Scene" *Address : Office :* The Times of India, Bombay 400 001 ; *Res. :* 22, Ashoka Apartments, Nepean Sea Rd., Bombay 400 006.

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Engineer, Telegraphs, 1954–58; Gen. Manager, I.T.I., 1958–65; Dir., Telecom Research Centre, New Delhi, 1965–69; INTELSAT assignee with Communication Satellite Corpn., Washington, 1969–70; Mem., P. & T. Board, 1970–71. *Address:* 2, Akbar Rd., New Delhi 110 011.

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SHUKLA, Vidya Charan, Minister of State for Defence Production, Govt. of India, since May 1971. *b.* in Raipur, Aug. 2, 1929; *Educ.:* Morris Coll. & Univ. Coll. of Law, Nagpur, M.P., Mahasamund Const. of Raipur Dist. 1957–71; re-elected from Raipur 1971; rep. the Indian Parly. Group in the meeting of the Commonwealth Parly. Assn., Singapore, 1964; Indian Rep. at the Afro-Asian Summit Cttee. at Algiers, 1965; was member, Estimates, Cttee., 1960–62 and Stg. Cttee. on Adm. Reforms; Dy. Min. for Parly. Affairs & Communications, Jan.-Feb. 1966; member, Cttee. of Media Units of the Min. of I. & B.; Dy. Min. for Home Affairs, 1966–67; Min. of State: for Home, 1967–70; Rev. & Exp., Min. of Finance, 1970–71. *Address:* 7, Race Course Road, New Delhi.

SIMON, J., B.Sc. (Chem.) (Madras), M.Sc. (Chem. Engg.) (Bombay), Assoc. mem., Indian Instt. of Science (Bangalore), Fellow, Instn. of Chem. Engrs. (U.K.); Chmn.-cum-Mg. Dir., Neyveli Lignite Corpn. Ltd., since Oct. '71. *b.* June 23, 1921; *Educ.:* Madras and Bangalore. Govt. of India scholar with I.C.I., England, 1945–48; Plant Manager, Sindri Unit of F.C.I., 1948-54; Project Officer in-charge of Sindri expansion, 1954-58; Dy. Supdt. & Supdt. (Production), Sindri, 1958-62; Gen. Supdt., Sindri, 1962-63; Gen. Manager, Sindri, 1963-64; Gen. Manager (on deputation), Gujarat State Fertilizer Corpn., Baroda; Tech. Adv. to the Board, EID Parry Ltd., Madras, 1965-70; Gen. Manager (Chem.), N.L.C., Sep. '70 — Oct. '71. *Address:* K-22, Lower Boulevard, Block 8, Neyveli 607 802. (South Arcot Dist.).

SINGH, Harbans, B.A., Barrister-at-Law, Chief Justice, Punjab & Haryana High Court, since Aug. 15, 1970. *b.* April 9, 1912; *Educ.:* Govt. Coll,, Lahore (1932), Lincoln's Inn (1936); Practised at Lahore bar, 1937-47; Addl. Dist. & Sessions Judge, July '47 to March '48; Dy. Custodian of Evacuee Property, Punjab, 1948-50; Dist. & Sessions Judge, April '50 to Aug. '58; Judge, Punjab High Court, Aug. '58 to Aug. '70. *Address:* 58, Sector 4, Chandigarh.

SINGH, Sardar Jogendra, Governor of Rajasthan, since July, 1972. *b.* Oct. 30, 1903; *Educ.:* Privately. Entered politics at an early age; mem., Central Leg. Assembly, 1937-46; was also Chief Whip of Opposition and mem., Public Accounts Cttee. and Estimates Cttee.; mem., Constituent Assembly, 1946-49; Prov. Parlt., 1949-52; Lok Sabha, 1952-62; Rajya Sabha, 1964-71; leader, Indian Delegation to F.A.O., Rome, 1958; Chmn., Indian Refineries, 1963-64 and Housing Cttee., Rajya Sabha, 1970-71; mem., Indian Central Agri. Commn, 1970-71; Chmn, Delhi Sikh Gurudwaras Board, since 1970; Governor, Orissa, Sept. 1971 to June 1972. *Address:* Raj Bhavan, Jaipur.

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SINGH, Dr. Nagendra, M.A., LL.D. (Cantab), D.Sc. (Law) (Moscow), D.C.L. (Delhi), M.A., B.Litt., LL.D. (Dublin), D.Litt. (Bihar), D.Phil. (Cal.), Bar-at-Law, I.C.S., i.d.c., J.P., Judge, Intnl. Court of Justice The Hague since Oct. 30, 1972. Was Secy. to the President of India, 1966–72 ; and Constitutional Advisor to the Govt. of Bhutan, 1970–72 ; Joined I.C.S., 1938 ; worked in the ministries of Defence, I. & B., States (Home) and Transport, D.G.S. and Secy., Transport Min. (1956–66) ; Mem. : Intnl. : Law Commn. (1967–73) ; Permanent Court of Arbitration, The Hague (1967-73); Chmn., UNCITRAL 4th Session, Geneva 1971) ; Pres., IMCO Assembly (1963–65); 55th I.L.O. Maritime Session, 1970 ; Nehru Professor, Geneva Univ. ; Shri Panch Tribhuvan Prof., Tribhuvan Univ., Nepal ; Visiting Prof., Univs. of Madras, Bombay, Delhi, Banaras and Udaipur and Jawaharlal Nehru Univ. *Publications : Termination of membership of International Organisations ; Nuclear Weapons and International Law ; Defence Mechanism of the Modern State ; India and International Law; Achievements of UNCTAD I & II in the Field of Invisibles ; Human Rights and International Co-operation ; The Legal Regime of Merchant Shipping, etc. Address :* 6, Akbar Rd., New Delhi (India) ; International Court of Justice, Peace Palace, The Hague (Netherlands).

SINGH, Dr. Ram Subhag, Shastri (Banaras), M.A. (Missouri), Ph.D. in Journalism (Missouri), was leader of Opposition in Lok Sabha, Dec. 1969–Dec. 1970. *b.* July 7, 1917 ; *Educ. :* Sri Kashividyapith, Varanasi ; Missouri Univ. ; Columbia, U.S.A. Member, Prov. Parlt., 1950–52 ; M.P., Lok Sabha, 1952–70 ; member : Exec. Cttee. of the Cong. Party in Parlt., 1954–70 ; its Secy., 1955–62 ; Cong. Wkg. Cttee., since Jan. 1961 ; Cong. Central Election Cttee., since May, 1966 ; Leader, Indian delegation to : 8th Session of the Intnl. Rice Commn. and sixth F.A.O. Regional Cfce. at Kuala Lumpur, 1962 ; Anglo-Asian Rural Reconstruction Cfce., Kuala Lumpur, 1964 ; Union Min. of State for : Agr., 1962–64 ; Railways, 1964–67 ; Min. for Parly. Affairs & Communications, 1967–69 ; Min. of Rlys., Feb.–Nov., 1969. *Address :* Khajuria, Arrah (Bihar) ; 12, Janpath, New Delhi 110001.

SINGH, Lt. Gen. Sartaj, George Medal (1943), Padma Bhushan (1971), G.O.C.-in-C., Southern Command, since Jan. '73. *b.* July 19, 1918 ; *Educ. :* Govt. Coll., Lahore. Commissioned April 3, '40 ; Lt. Col., Aug. '47 ; Brigadier, July '58 ; Maj.-General, Jan. '64 ; Lt. Gen. (Corps Commander), Sept. '69 ; Hon. A.D.C. to the President ; Col. Commandant of the Regiment of Artillery. *Address :* Command House, Poona 411001.

SINGH, Prof. Sher, M.A., Minister of State for Agriculture, Govt. of India, since Mar. 1971. *b.* Sept. 18, 1917 ; *Educ. :* Delhi Univ. Elected M.L.A., Punjab, 1946-62 ; M.L.C., 1962–66 ; Parly. Secy., Punjab, 1948–51; Dy. Leader, Cong. Party in Punjab Leg. & Min. of Irrigation and Power, 1956–57 ; Founder-Pres., Haryana Lok Samiti ; advocated a separate State for Haryana people. worked for Harijan Welfare ; attended the World Disarmament and Peace Cfce., in Moscow, 1962 ; led Indian Delegation to the Intellectual Property Cfce, Stockholm, June-July, 1967 ; Min. of State, Min. of Educ., Govt. of India, 1967-69 ; Min. of State for Inf. & Broadcasting and Deptt. of Communications, Feb. '69–Mar. '71 ; Min. for Communications Mar. '71–May '71. *Publications : Roos Yatra. Address :* New Delhi.

SINGH, Surendra Pal, B.A. (Hons.) (History) Min. of State for External Affairs, Govt. of India, since Feb. 5, 1973. *b.* May 17, 1917 ; *Educ. :* Col. Brown's School, Dehra Dun ; Cambridge Univ., England. Commissioned Officer in the Indian Armoured Corps., 1940-43 ; actively co-operated with the National Extension Service Scheme of the Govt. ; donated funds for the building of Schools and Hospitals and roads in the rural areas of his home Dist. ; M.P., Lok Sabha, since 1962 ; Mem., Public Accounts Cttee., 1965–66 ; Dy. Min. for Ext. Affairs Mar. 1967–Feb. 1973. *Address :* Unchagaon Estate, Dist. Bulandshahr (U.P.) ; External Affairs Ministry, New Delhi.

SINGH, Sardar Swaran, B.Sc. (Hons.), M.Sc. (Physics) (Lahore), LL.B., Min. for External Affairs, Govt. of India, since June 27, 1970 ; Ex-Min. for Defence, Nov. 1966-June '70 ; ex-member, Plng. Commn. *b.* Aug. 19, 1907 ; *Educ. :* Govt. Coll., Lahore. Elected M.L.A., Punjab, 1946 ; Min. for Devpt., Food & Civil Supplies, Punjab ; Min. for : Home, Gen. Admn., Revenue, Irrigation, Electricity, Punjab, 1947 ; Capital Project, Electricity, April-May, 1952 ; Works, Housing, Supply, 1952-57 ; led the Indian delegation to the sessions of the Eco. Social Council of the U.N., at Geneva, 1954, 1955 ; elected to the Lok Sabha ; Min. for : Steel, Mines and Fuel, 1957-62 ; Railways, 1962 ; Food & Agr., 1963–64 ; Industry & Supply ; attended the Cfce. of Foreign Mins. of non-aligned countries, Oct. 1964 ; leader, Indian delegation to U.N. Gen. Assembly, Dec. 1964, Oct. 1965, Sept. 1966, Oct. 1970, Sept. 1971 and Oct. 1972 ; assisted Prime Minister Shastri in Tashkent talks with Pres. Ayub Khan of Pak., Jan. 1966 ; Asian Council of Ministers Meeting, Dec. 1970 ; Represented India at Commonwealth Prime Ministers' Cfce., Singapore, Jan. 1971 ; Re-elected to Lok Sabha, Mar. 1971. *Address :* 7, Hastings Rd., New Delhi.

SINGHANIA, Lakshmipat, Industrialist and Vice-Pres., J. K. Organisation. *b.* 1910. Started business career at age of 16; Dir.:-in-Charge: Aluminium Corpn. of India Ltd.; The Straw Products Ltd.; Chmn.: The Ganges Manufg. Co. Ltd.; J. K. Steel & Industries Ltd.; Pres., The National Insurance Co. Ltd.; Dir.: J. K. Cotton Spinning & Weaving Mills Co. Ltd.; Nav Bharat Vanijya Ltd.; Bengal & Assam Investors Ltd.; J. K. Industries Private Ltd.; J. K. Iron & Steel Co. Ltd.; Intnl. Cardiology Foundation, etc.; one of the Indian Underwriting members, Lloyd's Socy. of London; mem., Board of Governors, Indian Instt. of Social Welfare & Business Management; Vice-Pres., All India Heart Foundation; Ex-President: F.I.C.C. & I.; Indian National Cttee. of the I.C.C.; All India Orgn. of Industrial Employers; Bharat Chamber of Commerce; Merchants' Chamber of U.P.; takes active interest in public affairs, social welfare and charitable institutions. *Address: (Office)* 7, Council House St., Calcutta 700001; *(Resi.)* J. K. House, 12, Alipore Rd., Calcutta 700027.

SINGHANIA, Sir Padampat, LL.D. (Kanpur Univ.), Industrialist and business man. *b.* 1905. Pres. J. K. Orgn.; founded Merchants' Chamber, U.P., 1932; ex-Pres., F.I.C.C.I.; Vice Pres., Seva Samiti, Allahabad; was mem.: U.P. Leg. Assembly; Constituent Assembly; First General Council of U.P. Assn. for Blind; Indian Instt. of Intnl. Affairs; Heavy Industries Adv. Cttee.; Chmn., Board of Governors, Indian Instt. of Technology; Northern Regional Board of Practical Trg. for Engg. Graduates and Diploma holders; established: J. K. Instt. of Applied Physics and Technology, Allahabad; J. K. Instt. of Sociology and Human relations, Lucknow; J. K. Instt. of Radiology and Cancer Research, Kanpur, etc. *Address: Office:* Kamla Tower, Kanpur; *Resi:* "Ganga Kutir", Cantonment, Kanpur.

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SIVASAILAM, A., B.Com., Business man; Chairman, Amalgamations Private Ltd., Madras; Simpson & Group Companies and Chmn. and Mg. Dir., Tractors and Farm Equipment Ltd., Madras. *b.* Aug. 24, 1934; *Educ.:* Madras and London. Dir.: The Tamil Nadu Ind. Investment Corpn. Ltd., Madras; Pres.: Assn. of Indian Automobile Manufrs., Bombay; Mem.: Devpt. Council for Automobiles, Automobile Ancillary Industries, Transport Vehicle Industries, Tractors, Earthmoving Equipment and Internal Combustion Engines, Govt. of India; Central Adv. Council of Industries, Govt. of India; Adv. Council on Trade, Govt. of India; Board for Agricultural Machinery and Implements, Min. of Food & Agri., Govt. of India; State Industries Devpt. Cttee., Govt. of Tamil Nadu; Local Board (Southern Area), Reserve Bank of India; Court of Governors, Adm. Staff Coll. of India, Hyderabad; Mg. Cttee., Madras Inst. of Technology, Chromepet; Fellow: Instt. of Directors, London; Sheriff of Madras, 1969–70. *Address:* 202, Mount Rd., Madras 600002.

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Governing Council, Northern India Textiles Research Assn. ; Leader, Indian Delegation, Intnl. Org. for Stdn., U.S.A., 1952. *Address :* Kailash, Nawabganj, Kanpur.

SUBBULAKSHMI, Smt. Madurai Shanmugavadivu, Padma Bhushan (1954), President's Award for Karnatic Music (1956), Doctor of Literature by the Rabindra Bharati Univ. for her contribution to Karnatic Music, Jan. 1967, 'Sangita Kalanidhi' in 1969, Doctor of Letters, by Sri. Venkateswara Univ., 1971, Classical Karnatic Musician, *b.* Sept. 1916 ; *Educ. :* Learnt music from her mother. Gave solo performance and became a leading musician before 18 ; her part as heroine in the Hindi film "Meera" won for her all India popularity ; has given more than a 100 benefit recitals in aid of many national, social and religious causes ; represented, Karnatic Music in the Edinburgh Intnl. Festival of Arts, 1963 ; also gave concerts in London, Frankfurt, Geneva and Cairo ; special concert before U.N. Assembly on U.N. Day (Oct. 23, 1966) on invitation ; 7-week concert tour in the U.S.A., Oct.–Nov. 1966 ; had private audience with Pope, Dec. 3, 1966 ; first woman musician to be elected Pres. of the Madras Music Academy Cfce., 1968 ; recipient of Tamil Isai Sangham title 'Isai Perarignar ', 1970 ; *Address :* " Kalki Buildings ", Chetput, Madras 600031.

SUBRAMANIAM, C., B.A., B.L. (Madras), Minister for Industrial Development and Dept. of Science and Tech., Govt. of India, since July 1972. Was Min. for Planning, April 24, 1971-July 1972. Dy. Chmn., Plng. Commn. *b.* Jan. 30, 1910 at Pollachi, Coimbatore Dist. ; *Educ. :* Coimbatore and Madras. Started practice in Coimbatore, 1936 ; was Pres., Coimbatore D.C.C. ; mem. : P.C.C., A.I.C.C. ; Wkg. Cttee., Tamilnad Cong. ; mem., Constituent Assembly, 1946–52 ; M.L.A., Madras, 1952–62 ; Fin., Educ. and Law Min., Madras till 1962 ; M.P., Lok Sabha 1962–67 ; Union Min. for : Steel & Heavy Industries, 1962–63 ; Steel, Mines & Heavy Engg., 1963–64 ; Food and Agr., 1964–66 ; Food, Agr., Com. Devpt. and Co-op. 1966–67 ; Chairman, Aeronautics Cttee., 1967–69 ; Interim Pres., Indian Nat. Cong., July–Dec. 1969 ; Chmn., National Commn. on Agriculture 1970–71. *Publications :* Two travelogues in Tamil ; *Countries I have visited* and *Round the World ; India of my dreams* and numerous articles. *Address :* River View, Adyar, Madras 600025 ; 5, Sonehri Bagh Rd., New Delhi.

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Philosophy : *Philosophy of Progress and Perfection ; Abhedananda-darsana ; Thoughts on Yoga ; Upanishad and Gita*, etc. *Address :* Ramakrishna Vedanta Math, 19B, Raja Rajkrishna St., Calcutta 700 006.

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Instt. of Management, Ahmedabad; Dir.: Hindustan Steel, Heavy Eng. Corp., Food Corp., National Seeds Corp., Ind. Devpt. Bank of India etc. Present: Mem., Court of Governors, Adm. Staff College of India, Hyderabad; Nat. Instt. of Bank Mgmt.; Ind. Instt. of Pubilc Admn.; Dir., Central Board of Reserve Bank, Hindustan Aeronautics; Mem.: Board of Trade Council of Instt. of Chartered Accts. of India; Dean: Faculty of Com., Punjab Univ.; Led a Marketing and Distribution Team of National Productivity Council (1961) to Europe and USA. Board of Regents (Uni. of California); Lecturer, Los Angeles 1967, Berkeley 1970: Awarded Sir Jehangir Gandhi Medal for Industrial Peace 1972. *Publications: Punjabi Century* 1857–1947, *Beyond Punjab* 1937–1960. *Address:* 'Dakshin Pali', D'Monte Park, Bandra, Bombay 400 050; Sandhya, D-54, Faridabad, N.H.3.

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Organisation, Army Hqrs., 1949-51 and 1954-56; Dy. Commandant & Commandant, Infantry School, Mhow, 1957-59; commanded Infantry Brigade, 1959-62; graduated, National Defence Coll., 1963; commanded Infantry Divn. in Sialkot sector, 1965; Dir. of Mil. Trg., Army Hqrs., 1966-69; commanded Corps in Eastern Sector, 1969-72; Master General of Ordnance, May-Oct. '72. *Publications:* contributions to service journals. *Address:* Command House, Simla 171003.

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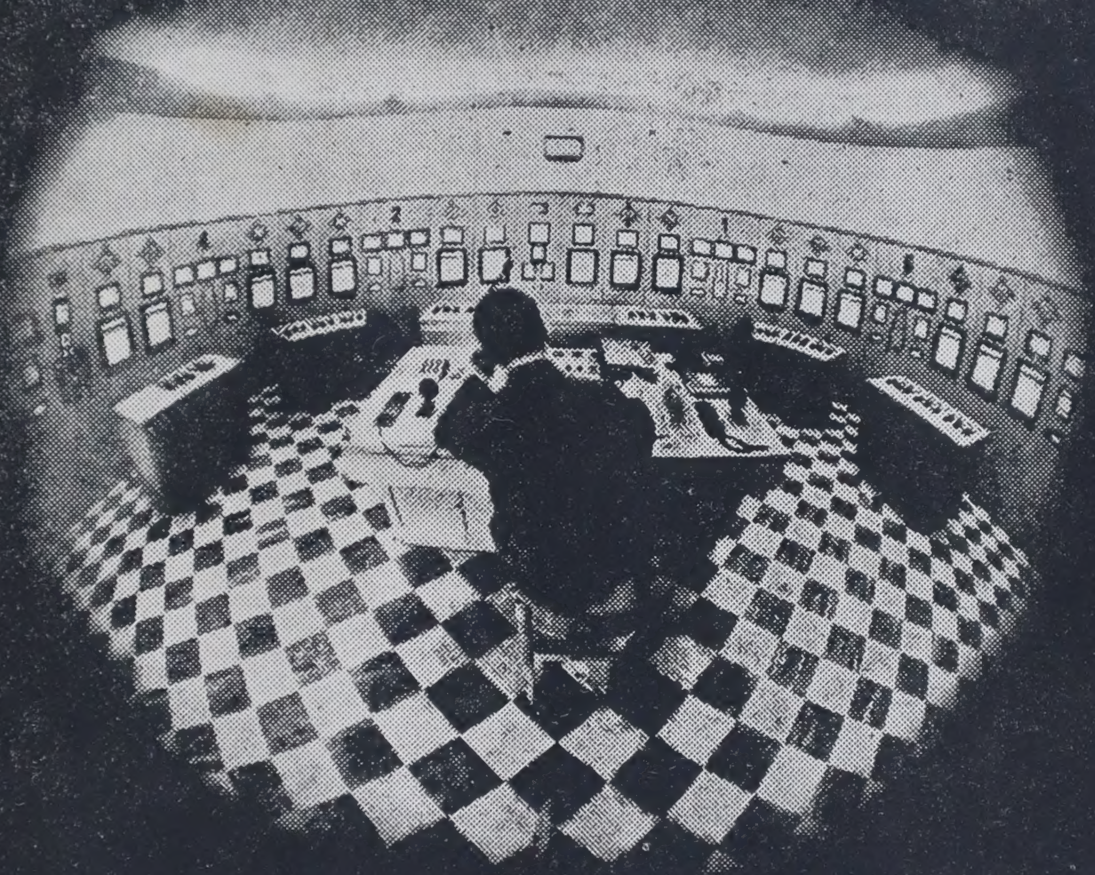

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